October revision2022-2023

Concept 1 Lesson (1) Adaptation and survival

How living organisms protect itself from extreme heat of the sun?

Desert lizard: by finding shaded area.

Palm leaves: covered with waxy layer.

Human being: by using umbrella and light clothes.

These different ways for protection known as:

Adaptation: It is a way that helps the living organism to survive in its environment.

G.R: the importance of adaptation for living organisms

To survive and reproduce.

Climate is considered one reason for adaptation of penguins to survive in cold environment:

Penguins

1-Penguins are cold adapted for living in Antarctica where it is very cold.

2-has fat layer and thick feather on his body to keep its body warm in the freezing cold.

3- How penguin keeps its toes feet from freezing?

The warm blood vessels from body weave around the cold blood vessels from feet to heat up.

Camouflage: It is an example of adaptation in which some animals hide from predators or preys by blending with surrounding environment.

Ways of adaptation in some living organisms:

1. Polar bear:

It has thick white fur to:

- a. Keep warm.
- b. Blend with snow to catch its prey



2.Brown or black bear:

It has dark brown fur to:

a. Help it to hide between trees during catching its prey



3.Caracal:) It is a mammal animal .

It is a carnivorous animal eats meat: a.It has golden fur, to help it hide in desert.



4.Fennec fox:

It is a small foxes:

- a. It has large ears.
- b. It has golden fur, to help it hide in desert.



5. Lizards:

have colorful scales that help them to hide between coloured rocks in the desert to:

- a. hides from enemies.
- b. catch preys.

In very high temperature, lizards use burrows and go to shady places as a means of adapting to the desert heat.

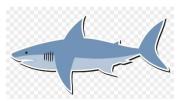


6. Bull shark:

It can live in fresh and salt water.

It has countershading

This helps the animal to blend into the water and catch their preys



Lesson (2) Types of Adaptations

Types of adaptation:

Structural adaptation (physical adaptation)	- Behavioral adaptation
It is a change in the structure of animal body to adapt its environment	It is a change in the behaviors (acts) of animals groups to adapt its environment
The blood vessels in the penguin feet The thick fur of the polar bear	Migration of some animals towards certain region Desert lizard looks for shade in hot sun

Adaptation of foxes to survive in their environments:

Fennec fox	Arctic fox				
habitat					
It lives in hot desert	It lives in tundra				
Struct	tural adaptation				
It has tan colored coat	It has thick fur coat				
To hide in sandy environment	To keep body warm in cold climate				
To protect from the hot sun	- It has white fur coat in winter – brown in summer				
	To sneak up on prey in any season				
It has extra-large ears	It has short ears and legs				
To lose heat to cool its body	To help it stays warm				
It has a special shape of ears	It has a special shape of ears				
To allow good hearing for hunts	To allow good hearing for hunts				
Behav	rioral adaptation				
It pants like dogs					
To cool its body					
It lives in burrows	It lives in burrows				
To stay cool in sunny days	To stay warm at night				
It eats different kinds of food	It eats different kinds of food				
Bec. hard to find food in desert	Bec. hard to find food in tundra				

Adaptation of foxes to survive in their environments:

Lizards are from reptiles - Bodies of reptiles (lizards) covered with scales.

Bull shark	Panther chameleon (lizard)
	habitat
It lives in fresh and salty water	It lives in tropical rainforest
Unique advantage	
Struct	tural adaptation
It has dark back and white belly	It has bright colored scales
To sneak up on prey by	To camouflage with surrounding environment
countershading strategy	
It has sharp teeth	Its eyes move in opposite directions
To tear prey's flesh	One eye search food
	The other eye to avoid danger
	It has very long sticky tongue
	To hunt insects for feeding
	It has V-shaped feet and tail like a hand
	To hold tightly the branches of tree
Behav	ioral adaptation
It can hunt in salty and fresh water	In danger it scare its attacker by:
So, It feeds on different types of food	 It puffs up its body with air.
	 It opens its mouth wide.
	 It changes scales color.
It hunts in the day and the night	
So, Its prey can't predict hunt time	

Lesson 3: Plant adaptation

- plants have the ability to adapt in their environment From this environment :

Savannah forest in Africa

Lack of water – drought climate -Grassland soil has mild temperature

Acacia tree (umbrella-shaped tree)

Amazon rainforest of Brazil

Plenty of water - Soggy soil (wet mud soil)

Kapok tree (umbrella-shaped tree)

Adaptation of two terrific trees to survive in their environment:

Acacia tree:

Habitat: It grows in Savannah Forest in Africa

Structural adaptation

It has very long root (taproot) To search for water in deep soil

It has very long trunk Most animals can't feed on its leaves except giraffe

Acacia tree store water in its trunk It has tiny leaves on its top To hold water to make food

It has sharp spines leaves To protect from hungry animals

Behavioral adaptation

Acacia tree can defend itself: It produces a poison when animal eat its leaves. (bad taste) - Send smelly message to near tree.

Kapok tree

It grows in Amazon rainforest of Brazil

Structural adaptation

It has large wide roots (buttress roots) To hold the tree in the soggy soil

The roots grow up around the trunk To hold the tree in the soggy soil.

It has hand-shaped leaves with narrow parts to allow wind move gently without tearing (cutting)

Behavioral adaptation

It sends delicious smelling messages to invite bats by wind

Mangrove tree:

Structural adaptations:

It lives in salt water – it has long and strong roots to resist the waves



Water lily:

It lives in wetland – it has wide leaves float on water to absorb sunlight.



3- Palm tree:

It lives in desert - it has thick roots and small leaves to resist strong winds.



4- Pine tree: It lives in snow – it has triangle tree and short branches to allow snow to slides over So, don't break. - It has needle leaves prevent plant from lose of water.



Lesson (4) Digestive system

* The body of living organism consists of systems as digestive - respiratory – nervous Each system consists of organs as :

two lungs – heart – stomach – brain. Note: Digestive and respiratory system are working together to get energy from food and breathing.

- The body gets nutrients from food to get energy.
- The body needs energy: To do activities as (walking talking sleeping) To do body functions as (heart beating breathing thinking) Human digestive system
- To get nutrients from food, the food must be digested.

Digestive system:

-A system breaks food into small parts that a body uses to get energy.

Digestion process: A process of breaks food into small parts that a body uses to get energy.

The structure of digestive system: Mouth – Esophagus – Stomach – Small intestine – Large intestine.

Notes: Digestive system starts with mouth and ends with anus.

1- Mouth:

Digestion of food begins in the mouth.

Mouth contains: Teeth – Tongue – Saliva (liquid substance in mouth)

- Function of teeth: It breaks and crush food during chewing.
- Function of tongue: It mixes food with saliva in mouth.
- Function of saliva: It facilitate the swallowing of food digest starch into sugar.
 - 2- Esophagus:

A long muscular tube. • Function of esophagus: It moves the food down into the stomach.

- 3- Stomach: A muscular organ.
- Function of stomach: It mixes food with stomach acid to get soupy liquid.
 - 4- Small intestine:

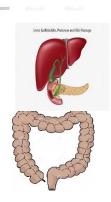
A long coiling tube with length 6 meter.

- Food is broken into simple nutrients.
- The blood carry nutrients to all body parts.
- Function of small intestine: complete digestion of food absorb nutrients
 - 5- Pancreas and liver: secrete juice in small intestine to help in breaks food into nutrients.

Large intestine: A tube starts from end of small intestine and ends with anus.







• Function of large intestine: It absorb water from wastes to become solid wastes come out through anus.

What happen: When one organ of digestive system is absent.?

The system cant performs its function properly.

How to keep digestive system healthy?

- 1-Chew the food well
- 2-Don't eat much fast meals.
- 3-Drink a lot amount of water.

Respiratory System

A system is responsible for breathing.

Respiratory system:

supply the body with oxygen gas and gets rid of carbon dioxide gas.

Respiration process:

A process by which air carry oxygen gas into the body and get rid of air carry carbon dioxide gas out of the body.

Human respiratory system consists of:

Nose – Throat – Trachea – Two lungs – Diaphragm. ● During breathing air pass from nose, throat, trachea into two lungs (like 2 balloons).

- The trachea branched into two bronchi and bronchioles.
- Air sacs (Alveoli) in lungs surround with blood vessels to extract oxygen gas from air.
- The blood carry oxygen gas to all body parts.
- Our bodies need oxygen gas to do their functions.
- Carbon dioxide is a harm waste product we must expel out in exhalation.

Diaphragm: A large muscle directs inhalation and exhalation process.

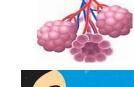
Respiration includes:

Inhalation and Exhalation process.

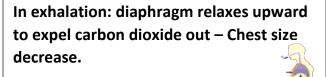
In inhalation: diaphragm contracts down to enter oxygen gas –

Chest size increase.











How to keep respiratory system healthy?

- -Avoid smoking
- Eat fruits as orange (vitamin C)
- breathe clean air.

Lesson (5) How Fish Breathe

- Fish lives in water environment.
- Human have lungs to breathe in air, while fish have gills to breathe under water.
- Oxygen gas is very important for breathing (inhalation)

Adaptation of fish to breathe under water :

- Fish have gills to allow it to live and breathe under water.
- Gills are found on sides of a fish's head.
- Blood vessels carry oxygen gas to all body parts (In human and fish).
- Gills of fish are considered as unique structural adaptation that allow fish to live and breathe under water.
- Water pollution affects fish healthy.

Human Change the ecosystem

There are 2 types of changes:

Natural changes of ecosystem

usually, slow change and done by nature organisms can adapt this change.

Human activity changes of ecosystem

usually, rapid change and done by human. Organisms can't adapt this change cause move, disappear, die or extinct of organisms.

Lesson (6) Amphibians

Amphibians:

they are small animals can live in moist environments (rainforest – stream - ponds) Examples of amphibians: Frogs – Toads – Salamanders.



- Amphibians can breathe using lungs on land (like human) But they can also extract oxygen from water using skin organ. (Structural adaptation)
- Amphibians respire through lungs and skin.

Factors cause extinction of amphibians:

- 1- Water and air pollution.
- 2- Destroying natural habitat.
- 3- Viruses in water.

To protect amphibians must clean air and water as:

- 1- Avoid throwing waste materials in water.
- 2- Dispose of chemicals in a correct way to avoid water pollution

Lesson (1) Senses Concept 2

- All living organisms receive stimuli from environment and makes respond to them.
- Stimuli as cold hot smooth rough
- The five senses: Hearing Sight Taste Smell Touch
- The five sense organs:
- -Ears for hearing
- Eyes for sight
- Tongue for taste
- Nose for smell
- Hand skin for touch
- Humans can listen to music by sense of hearing by ears organ.
- Owls have extra sense of hearing and sight to find their preys in dark
- . Dogs have sharp sense of hearing and smell for guarding. Dogs have sense of smell and sight for recognize friends by scent.
- Fox and deer have sense of hearing and sight to avoid danger.
- Chameleon has sense of sight and taste for searching food.
- Monkey has all five senses to identifying things.
- The Egyptian mongoose makes sounds for moving or searching food.





Dolphin Super Senses Dolphins have sharp sense of Hearing to hear all sound tones.

- Super senses of dolphins help them to: Survive search of food protect them under water.
- Dolphins use a property known as " Echolocation " that depend on " Echo " To locate their preys and objects in water.
- Echo: is reflection (bouncing off) of sound waves back from surface to its source.

Lesson (2) Super Sensory Organs Nocturnal Animals:

A group of different animals that look for their preys at night.

• Why animals active at night: To look for food – To hide from preys.

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Lesson (2) Super Sensory Organs

Nocturnal Animals: A group of different animals that look for their preys at night.

- Why animals active at night: To look for food To hide from preys.
- Super Sensory Adaptation of Nocturnal Animals
- 1- Snake Super Sensory Adaptation: Snake is from reptiles. Snake has ability of heat sense by special part in their face. to locate their preys.
- 2- Bat Super Sensory Adaptation: Bat is from flying nocturnal animals. Bat use Echolocation property using sound waves by hearing sense. (Like Dolphins) To locate their preys (insects) using Echo.
- 3- Owl Super Sensory Adaptation: Owl is from flying nocturnal animals. Owl has extra eyesight and strong hearing sense Owl has bowl-shaped face can detect distant sounds and quiet movements. The Nervous system

The nervous system consists of:

- 1- Brain: the main control center of the body.
- 2- Spinal cord: carry messages from brain to body and from body to brain. Spinal cord passes through the backbone.
- 4- Nerves: carry messages from brain and spinal cord to body and vice versa. Nerves of eyes and heart connect directly to the brain.

Sensory organs:

receive information from environment by sensory receptors.

Sensory receptors:

nerves found in sensory organs receive information from environment.

Lesson (3) Sensing of the Environment

What when touch spines of cactus plant?

Withdraw hand fast in one second.

Egyptian jerboa:

is a desert rodent with very large ears (like fennec fox) and small eyes.

Egyptian jerboa Adaptation:

it has long hind legs to help it jump long distances.

- A jerboa's feet and toes have hair to help it catch sand is <u>Structural adaptation</u>.
- Hopping a jerboa in zigzag paths to run away from danger is <u>Behavioral</u> <u>adaptation.</u>
- A jerboa has large ears use hearing sense it can hear snake. (like fennec fox) How jerboa's body work together to avoid danger?

Lesson (4) Reaction time and Response

Reaction time:

- -is the period from sensing danger to being away from it.
- The shorter reaction time to a danger, the greater chance of survival.
- -Nerves links between sense organs and the brain.
- The response of eye nerves is faster than of ear nerves.
- Examples:

When you smell bad odour, nerves in nose send a signal to the brain to make respond. When you touch hot object, nerves in hand send a signal to the brain to move hand away.

Lesson (5) How the Nervous System Works

Function of nervous system:

- 1-Collecting information inside and outside the body then send to the brain through nerves.
- 2-The brain processed this information and sends a response.
- 3-Nerves transmit information from sensory organs to the brain in form of electric impulses.

Role of sensory organs in processing information:

- 1-The sensory organs (eyes ears skin) gathering information by sensory receptors.
- 2- The nervous system (nerves) sends information from sensory organs to the brain to be processed.

Note:

- -The components of nervous system are connected to nerves to transmit information (messages) throughout the body parts.
- -Sound waves:

A type of waves transmitted from ears to the brain.

Reflex action:

A type of messages transmitted as so fast. Examples of reflex action:

- 1-You blink your eyes when something comes near it.
- 2-Your hand moves away quickly when touch a very hot object (plant spines).

Concept 3 Light and Sight

Nervous system

A system that send information from sense organs to the brain to process it.

Nervous system: A system that works with eyes for seeing objects.

The eye: is the organ of sight.

Humans: need light to see objects.

Night vision goggle:

A tool used by human can depend on to see at dark.

Nocturnal animals

Animals have night vision to hunt at night such as:

Fishing cat	-A wild cat that have glow eyes to hunt at night by sight sensehas glow eyes because it has a mirror-like membrane on back of eyes that bounce off (reflect) light (Structural Adaptation)	
Tarsier monkey:	has huge eyes to hunt at night by sight sense.	

Note:

• Cat eyes are structural adaptation but activation of animals at night is behavioral adaptation.

Sources of light: Objects that gives off (emits) their own light.

Examples of light sources: The sun – Electric lamps – candles – flash night – fire. The moon

mirror not a source of light as they reflect (bounce off) light.

- Human can see objects that give off light or reflect light.
- The eye can see when light fall on object and bounce back (reflect) to the eye.



Cncept 1

1: Choose:

1- One of the behavioral adaptations that help the animal protect itself from enemies

(**Camouflage** - extinction - immigration - reproduction)

1- من التكيفات السلوكية التي تساعد الحيوان على حماية نفسه من الأعداء (التخفي - الانقراض - الهجرة- التكاثر)

2-Bat is.....animal. (nocturnal-morning-Harmful - don't fly)

2 - الخفافيش حيوانات (ليلية صباحية - ضارة - لا تطير)

3-..... is covering body arctic fox (heavy hair - heavy skin - thick fur - many feathers)

3 -يغطى جسم الثعلب القطبى (وبر كثيف- جلد ثقيل - فراء كثيف - ريش كثير)

4-The roots of palm plants help them to(Stand strong against the wind

- reach the underground water - Fixation of plants in the soil -all the above) ما المياه المواه المواه المياه المواه المياه المواه ال

5 -.....panting to lower her body temperature.

(Whales - Lions -Foxes - Bats)

5- تلهث لخفض درجة حرارة أجسامها. (الحيتان - الأسود - الثعالب- الخفافيش)

- 6- Adaptation processes include changes that in the environment.
- (a) reduce the chances of survival
- (b) reduce the life span of individuals
- (c) improve the survival of the species
- (d) reduce the reproduction process

6- تشمل عمليات التكيف التغييرات التي في البيئة . (تقلل فرص البقاء على قيد الحياة - تقلل العمر الافتراضي للأفراد - تحسن بقاء الأنواع - تقلل عملية التكاثر)

- 7- What is adaptation?
- (A) The process by which new species appear.
- (b) A property possessed by living things to help them survive.
- (C) A form of pollination for trees.
- (D) A process of getting rid of harmful substances in living things.

7- ما هو التكيف؟ .. (عملية تظهر بها أنواع جديدة - خاصية تمتلكها الكائنات الحية لمساعدتها على البقاء- شكل من أشكال التلقيح للأشجار - عملية تتخلص بها الكائنات الحية من المواد الضارة)

2

8- What happens to organisms that cannot adapt to the conditions of their environment?



- (a) their number increases
- (b) they cannot survive in the environment
- (c) their number remains constant
- (d) they can persist in the environment

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8- ماذا يحدث للكائنات الحية التي لا يمكنها التكيف مع ظروف بيئتها (يزداد عددها - لا يمكنها العيش في البيئة - يبقي عددها ثابت -يمكنها الاستمرار في البيئة )
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9- Animals that live in a hot environment have ears to help her, and allow heat to escape to be cool.

(small - short - long - sharp)

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9- الحيوانات التي تعيش في بيئة حارة آذانها ......... لتساعدها على التخلص من حرارة جسمها الزائدة. (صغيرة - قصيرة- حادة- طويلة)
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10- Fish extracts oxygen out of the water by (skin -gills - lungs - fins)

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10- تستخرج الأسماك الأكسجين من الماء عن طريق ......(جلد - خياشيم - رئتان - زعانف)
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11- Stomach is a part of the digestive system that.......

(chewing food- converts solid food into liquid - absorbs nutrients from food - delivers food into the esophagus)

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11- المعدة جزء من الجهاز الهضمي ...... (مضغ الطعام- يحول الطعام الصلب إلى سائل- يمتص العناصر الغذائية من الطعام - يوصل الطعام إلى المريء)
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12-Which of these examples of hiding or a camouflage

(camel broad feet – camel hump – power parrot wings – the fox is golden like its environment)

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12- أي من هذه الأمثلة على الاختباء أو التمويه (الجمل عريضه قدم - سنام الجمل - باور ببغاء اجنحة - الثعلب ذهبي مثل بيئته
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13- Eagle is bird of prey (who eats meat). Its beak is strong and sharp.

This structural adaptation helps it to

(see - ripping meat- find a shelter- escape)

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13 - النسر من الطيور الجارحة. ومنقارها قوي وحاد. هذا التكيف الهيكلي يساعدها على ......(النظر - تمزيق اللحم- ابحث عن ملجأ- هروب)
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1st term. 2023 Mrs: Zeinab Abdelaziz **Grade 4**

2- Put (v) or (x) or the following statements:



- 1- Foxes have a strong sense of hearing. ($\sqrt{}$)
- $(\sqrt{})$ لدى الثعالب حاسة سمعية قوية.
- 2- The respiratory system is responsible for the entry of air into the body. ($\sqrt{}$)
 - $(\sqrt{})$ الجهاز التنفسي مسئول عن دخول الهواء إلى الجسم.
- 3- Exhaled air is loaded with oxygen(x)

- 3- هواء الزفير محمل بالأكسجين (x)
- 4- When running and making an effort, the number of breathing times decreases(x)
 - 4- عند الجرى والجهد يقل عدد مرات التنفس (x)
- 5- Acacia trees grow in the Amazon forest. (x)
- 5- تنمو أشجار الأكاسيا في غابات الأمازون. (x)
- 6- The feet of the penguin do not freeze because they have a layer of fat. (x)
 - 6- لا تتجمد أقدام البطريق لأنها تحتوى على طبقة دهنية. (x)
- 7- The fur that some animals possess to protect them from the cold is a behavioral adaptation. (x) 7- الفراء الذي تمتلكه بعض الحيوانات لحمايتها من البرد هو تكيف سلوكي. (x)
- 8- Man cannot restore the ecosystem with any way (x)
- 8- لا يمكن للإنسان استعادة النظام البيئي بأي شكل من الأشكال (x) 9- The migration of birds to search for food is considered a form of behavioral adaptation $(\sqrt{})$
 - $(\sqrt{\lambda})$ عن غذائها شكلاً من أشكال التكيف السلوكي $(\sqrt{\lambda})$
- 10- Some animals that live in cold have a long ears; To help it to maintain the body temperature (x)
 - 10- تمتلك بعض الحيوانات التي تعيش في المناطق الباردة آذانا طويلة؛ لتساعدها على الحفاظ على حرارة جسمها(x)
- 11- Plants need long roots that extend deep into the soil to survive in the water $scarce(\sqrt{)}$
 - 11- تحتاج النباتات إلى جذور طويلة ممتدة في أعماق التربة للبقاء في البيئة نادرة المياه. $(\sqrt{})$
- 12- Animals digging trenches is a form of structural adaptation (x)
 - 12- حفر الحيوانات للخنادق شكل من أشكال التكيف التركيبي. (x)
- 13- Food turns from complex to simple during digestion (\vee)
 - $(\sqrt{\lambda})$ يتحول الطعام من صورته المعقدة إلى البسيطة أثناء عملية الهضم

Column (A)	Column (B)
1-nerves b	a- bronchioles
2-branches inside the lung that resemble tree branches a	b- carry messages to the brain via the spinal cord
3-behavioral adaptation c	c- The kapok tree emits beautiful scents to attract bats
4-vibrating motion e	
5- membraned like mirror d	d- Structural adaptation of some animals to see better at night.
	e- A way to communicate between some animals

Column (A)	Column (B)
1-is a common organ in the digestive and respiratory system. d 2-a gas necessary for respiration. e 3-the process of pushing air in and out of the body. b	a- Carbon dioxide
4-a muscle that has an important role in the breathing process. c 5-ls a gas produced by respiration a	b- respiration of
o lo a gao produced by respiration a	c- diaphragm
	d- throat(pharynx)
	e- oxygen

Column (A)	Column (B)
1-sight d	a-it does not absorb food.
2-camouflage b	b-a type of adaptation that helps an animal to hide.
3-esophagus a	c-ants use it to sense and communicate smells
4- diaphragm e	d-it helps us see
5-smell c	e- a muscle that plays an important role in
	breathing



Complete:

1- The fat layer under the animal's skin to warm it is anadaptation (Structural - behavioral)

1- وجود الدهون تحت جلد الحيوان لتدفئته يعتبر تكيف . (تركيبي . سلوكي)

2-It causes many problems for the lungs(Breathing - pollution)

2- يسبب مشاكل كثيرة للرئتين (التنفس - التلوث).

3- Fish breathe gas which dissolved in water (Oxygen - carbon dioxide)

3- تتنفس الأسماك غازات مذابة في الماء (أكسجين - ثاني أكسيد الكربون)

4- mix and grind food inside the mouth

(Teeth only - Teeth and tongue)

4- يخلط ويطحن الطعام داخل الفم(الأسنان فقط - الأسنان واللسان)

5- Mangroves trees grow in.....(Fresh water - salt water)

5- تنمو أشجار المانجروف في (مياه عذبة - مياه مالحة)

6- During exhalation,..... gas comes out of the lung.

(Oxygen - Carbon dioxide)

6- أثناء الزفير ، يخرج الغاز من الرئة. (أكسجين - ثاني أكسيد الكربون)

7- The lungs are one of the important organs in thesystem. (Respiratory

- Digestive)

7- الرئتان من الأعضاء المهمة في نظام (الجهاز التنفسي - الهضمي)

8- The diaphragm rises up during theoperation

(Inhalation - Exhalation)

8- يرتفع الحجاب الحاجز خلال عملية(الشهيق - الزفير)

6



9- The cactus plant has spines that protect it from being eaten by desert animals, and this is considered a form of(Behavioral Adaptation - Structural Adaptation)

9- نبات الصبار له أشواك تحميه من أكل حيوانات الصحراء ، وهذا يعتبر شكلاً من أشكال ... (التكيف السلوكي - التكيف الهيكلي)
10- A tube with muscles that help push food into the stomach, called......
(Trachea - Esophagus)

10- أنبوب به عضلات تساعد على دفع الطعام إلى المعدة ، يسمى (القصبة الهوائية - المريء)

The fifth question: Answer the following:

1-Butterflies that have a color like the color of the tree they live on are called this phenomenon (Camouflage)

1- الفراشات التي لها لون مثل لون الشجرة التي تعيش عليها تسمى هذه الظاهرة (التمويه)

2- Rabbits have long and strong hind legs that help them to jump quickly and escape when danger determine the type of adaptation(Structural adaptation)

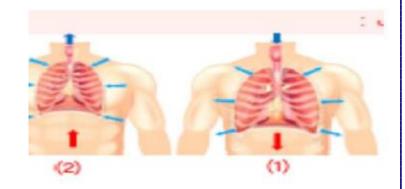
2- للأرانب أرجل خلفية طويلة وقوية تساعدها على القفز السريع والهروب عند الخطر يحدد نوع التكيف (التكيف التركيبي)

- 3 Note the following two figures. Identify the name of each of the two processes in Figures 1, 2: -
- 1- inhalation process
- 2- exhalation process

What happens to the diaphragm in Figure (1).

Diaphragm move down

4-The system that digests food to produce energy is **digestive system**



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4- الجهاز الذي يهضم الطعام لإنتاج الطاقة هو الجهاز الهضمي

5- Bats cannot see in the dark, but they hunt their prey at night because of **echolocation**

5- لا تستطيع الخفافيش الرؤية في الظلام ، لكنها تصطاد فريستها في الليل بسبب تحديد الموقع بالصدى

6-Chameleons can move each of their eyes in a different direction, this adaptation helps them



in catch prey - find food

6- يمكن للحرباء تحريك عيونهم في اتجاه مختلف ، وهذا التكيف يساعدهم في اصطياد الفريسة - العثور على الطعام

7- some dogs live in a cold environment, while some live in a hot environment. In your opinion, which one has thick fur, the cold environment or the hot environment? And why?(cold environment - to warm it)

7- تعيش بعض الكلاب في بيئة باردة بينما يعيش البعض الآخر في بيئة حارة. برأيك أيهما لديه فرو كثيف ، البيئة الباردة أم البيئة الحارة؟ ولماذا؟

(البيئة الباردة - لتدفئتها)

8- Leaves of plants that float above the surface of the water are so wide that they can **absorb sunlight**

8- أوراق النباتات التي تطفو فوق سطح الماء واسعة جدًا بحيث يمكنها امتصاص أشعة الشمس

9- Animals that have a thick layer of fat under the skin are animals that live in a **cold** environment

9- الحيوانات التي تحتوي على طبقة سميكة من الدهون تحت الجلد هي حيوانات تعيش في بيئة باردة

أسئلة المحافظات للعام الماضى 2021



1	L (`ŀ	າດ	nse	اt د	he	cor	rec	t	an	SW	er:
4			ıv	JJU			CUI	16		aıı	3 V V	C .

b. Cats

1-

a. Wholes

	and body of a	10 7 11 0110 1071	
a. Heavy hair	b. Heavy skin	c. Thick fur	d. Many feathers
2	are panting to lo	wer their body	temperature.

is covering the body of the Arctic fox

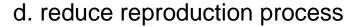
3- One of the behavioral adaptations that helps the animal protects itself from enemies is

c. Foxes

d. Bats

- b. extinction c. immigration d. reproduction a- camouflage
- 3- Adaptation includes changes that in the environment.
- a, reduce the chance of survival
- b. reduce life span for individuals

c. improve species survival





- 4- The esophagus is a part of the digestive system that acts to
- a. chew the food
- b. absorbs nutrients from the food
- c. transfer food from mouth to stomach
- d. transfer air to the lungs
- 5. Fish extracts oxygen out of water by
- a. skin b. gills d. fins c. Lungs

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2-Complete:

1-The fatty layer under the animal's skin to warm it is considered a.....adaptation

(structural_-behavioral)

- 2-mix and crush food inside the mouth........ (Teeth only-**Teeth and tongue)**
- 3. Fish breathe in...... gas which is dissolved in water (oxygen carbon dioxide)
- 4-.....destroys the lungs and causes many diseases.

(Breathing - Pollution)

Put a sign (v) or a sign (x) or the following statements:

- 1-The feet of the penguin don't freeze because they have an insulating fat layer. (x)
- 2-The thick fur that some animals possess to protect them from the cold is considers a behavioral adaptation. (\mathbf{x})
- 3- Penguins forming alarge groups in a structural adaptation. (x)
- 4- Plants have two types of adaptation (structural and behavioral) . (∨)
- 5- Sending bad smells by Acacia tree is a behavioral adaptation . (v)
- 6- Food turns from complex form to simple during the digestion process .(✓)
- 7- The food passes through the Large intestine before it goes to the small intestine. (x)
- 8- The respiratory system responsible for the entry of air into the body. (✓)
- 9- During exhalation the diaphragm moves upward and relaxes. (v)
- 10- A pharynx is a common cavity between the digestive and the respiratory system. (\checkmark)
- 11- Carbon dioxide is important for the respiration of animals. (x)

Answer:

- 1-Buttertlies that have the same color of the tree they live on. This is called camouflage
- 2- Some plants have thorns to defend themselves against enemies. -What is the type of adaptation? a structural adaptation.

Concept2



1- Choose:

1- The ability to turn the head in all directions............ (Snakes-jerboa - dolphins -owl)

1- القدرة على لف الرأس في جميع الاتجاهات تتميز بها (الثعابين - اليربوع - الدلافين - البومة)

2- All of the following are components of the nervous system except(Spinal cord - heart -nerves -brain)

2 - كل ما يلي يعتبر من مكونات الجهاز العصبي ماعدا (الحبل الشوكي - القلب - الأعصاب - الدماغ)

- 3- When you put your hand on a hot surface, the brain sends a message to the muscles, your action is
- (a) Keep placing your hand
- (b) You feel pain
- (c) You will do nothing
- (d) pull your hand away from a hot object

3- عند وضع يدك علي سطح ساخن، يرسل المخ رسالة الى العضلات والفعل الذي يصدر منك بعدها مباشرة هو . (أ) تستمر في وضع يدك (ب) تسحب يدك بعيدا عن جسم ساخن (ج) لن يصدر منك اي فعل (د) تشعر

4- عندما تحدد مذاق حلو أو مر، فإنك قد قمت باستخدام (اللسان - العين - الأذن -الأنف)

5- The sense you use to identify the scent of a perfume.

(taste -sight- smell-hearing)

5- الحاسه التي تستخدمها للتعرف على رائحة العطر (التذوق- البصر – الشم – السمع)

6- Your sensation of hot weather depends on sensory receptors in the (eyes - skin - nose – ears)

7- Sameh drives his bike, and during that he heard a car behind him and moved away so as not to collide with it, the device that received A sign that made Sameh realize that is

(a) the nervous system

- (b) the respiratory system
- (c) the digestive system
- (d) the circulatory system

8 – what carries the message from your eyes to your brain when you see something...

(nerves - muscle - veins - glands)

```
8 - ما الذي يحمل الرسالة من عينيك إلى دماغك عندما ترى شيئًا ... (أعصاب - عضلات - أوردة - غدد)
```

9-Thesystem helping us to translate messages that come from our surroundings, such as smells and sounds.

(respiratory - digestive - nervous - circulatory)

```
9 -يساعدنا نظام ...... على ترجمة الرسائل التي تأتي من محيطنا مثل الروائح والأصوات (الجهاز التنفسي - الهضمي - العصبي - الدوراني)
```

2- Put (v) or (x) or the following statements:

1-The ear is the sense organ responsible for seeing objects(x)

```
1- الأذن هي العضو الحسى المسئول عن رؤية الأشياء (x).
```

2- The brain responsible for processing information ($\sqrt{}$)

```
(\sqrt{}) الدماغ المسؤول عن معالجة المعلومات
```

3- Bats use their sense of smell to avoid dangers. (x)

```
7- تستخدم الخفافيش حاسة الشم لتجنب الأخطار. (x)
```

12

4- Dolphins have a strong sense of sight (x)

4- تتمتع الدلافين بإحساس قوى بالرؤية (x)

5-Snakes have the ability to rotate their heads in all directions(x)

5- الأفاعى لها القدرة على تدوير رؤوسها في كل الاتجاهات (x).

6- A person can identify food which is not good through the sense of hearing. (x)

6- يمكن للإنسان أن يتعرف على الطعام غير الجيد من خلال حاسة السمع. (x)

7- Bees can know the sweet taste by their sense of smell (x)

يستطيع النحل التمييز بين الطعم الحلو والمر عن طريق حاسة الشم(x)

8- The nervous system works separately from the five senses. (x)

8- يعمل الجهاز العصبي بشكل منفصل عن الحواس الخمس(x)

9- Seeing with our eyes is a way to help us gather information about the environment around us. $(\sqrt{})$

9- الرؤية بأعيننا وسيلة تساعدنا في جمع معلومات عن البيئة المحيطة بنا $(\sqrt{})$

10- The skin is the sensory organ that makes you feel the smooth of the cloth $(\sqrt{})$

 $(\sqrt{\nu})$ الجلد هو العضو الحسى الذي يجعلك تشعر بنعومة القماش الدي

11- Plants have two types of adaptation (structural and behavioral) ($\sqrt{}$)

11- العيون من الأعضاء الحسية التي تجعلك تشعر بمرارة الليمون $(\sqrt{})$



Column (A)	Column (B)
1-It is similar in its processing of information to a computer. c 2-when a foreign object is brought into your eyes	a- The spinal cord b- Using the sense of sight
3-when an object falls from your hands. b 4-the transmission of commands to the muscles to contract a	c- The brain d- The reflex action occurs

1) Column (A)	Column (B)
1-light <u>d</u>	a-it depends on the body's sense of heat
	for predation
2-owl <u>c</u>	b-it depends on the echo of the sound in
	locating the prey.
3-the snake <u>a</u>	c-An animal with a bowl- like face and
	strong sences of hearing and vision.
4-the bat b	d-it is the visible form of energy that is
	transmitted in the form of waves.
5-mirror- like membrane e	e-A structural adaptation in the eye that
	provides some animals with better vision
	at night.
	f- A sense that helps us hear birds

SCIENCE LAND

Complete:

1- The time taken for the body to receive information from the environment.....(Reflex action - Response time)

1- الوقت الذي يستغرقه الجسم لتلقى المعلومات من البيئة (رد الفعل المنعكس - زمن الاستجابة)

2- An animal that can escape from enemies because of the length of its hind leg. (Arctic fox - jerboa)

) 2- حيوان يستطيع الهروب من الأعداء بسبب طول رجله الخلفية (الثعلب القطبي - اليربوع

3- The eye sends messages to through the nerves (Brain - spinal cord)

3-ترسل العين رسائل إلى عن طريق الأعصاب (المخ. الحبل الشوكي)

4- The dolphin can locate its prey through its sense......(hearing - sight)

4- يستطيع الدلفين تحديد موقع فريسته من خلال حاسته (السمع - البصر)

5- The echo sound feature depends on (Hearing sense - Sight sense)

5- تعتمد خاصية صدى الصوت على (حاسة السمع - حاسة البصر)

6- The skin is an important organ of the system...

(Respiratory - Nervous)

6- الجلد عضو مهم في الجهاز ... (الجهاز التنفسي - العصبي)

7- The spinal cord is an important organ of thesystem (Nervous - Digestive)

7- النخاع الشوكي عضو مهم في جهاز (عصبي - هضمي)

١

8- Sensory organs such as the nose and ear receive information from the surrounding environment and convert it to (Nutrients - Nerve signals)

```
8- الأعضاء الحسية مثل الأنف والأذن تستقبل المعلومات من البيئة المحيطة وتحولها إلى ...... (العناصر الغذائية - الإشارات العصبية)
```

9- In order for the human being to remain alive, there is an integration between the senses and thesystem to interact with the surrounding environment.

(Respiratory - Nervous)

```
9- من أجل بقاء الإنسان على قيد الحياة ، هناك تكامل بين الحواس ونظام ...... للتفاعل مع البيئة المحيطة.
```

(الجهاز التنفسي - العصبي)

The fifth question: Answer the following:

- 1- A dolphin can locate living organisms and things under the surface of the water and explain the feature that helps the dolphin to do (echolocation)
- 1- يستطيع الدلفين تحديد موقع الكاننات الحية والأشياء تحت سطح الماء وشرح الميزة التي تساعد الدلفين على القيام به 2- There are some nocturnal animals that depend on their sense of heat to get their prey (snake)

```
2- هناك بعض الحيوانات الليلية التي تعتمد على إحساسها بالحرارة للحصول على فريستها (الثعبان).
```

8- Snakes depend on identifying their prey and catching them at night by sensing heat. Determine the reason

(as it is not seen at night)

8- تعتمد الثعابين على تحديد فرائسها واصطيادها ليلاً باستشعار الحرارة. حدد السبب



Grade 4

أسئلة المحافظات للعام الماضى 2021

1-Choose:

1-The organ which	ch is responsible	for smelling sense	;			
a-ear	b-tongue	c-nose	d eye			
2-To communicate through the sense of sight we nee						
a- making sound		b. availability of light				
c. hearing music		d. touching something				
3-Bats are	anima	ls.				
a. nocturnal	b. morning	c. not hearing	d. not flying			
4-The animal that has the ability to turn its head in all direction is a/an						
a. snake	b. jerboa	c. dolphin	d. owl			
5. All the followin	g components a	re from the nervou	s system except			
a. spinal cord	b. heart	c. nerves	d. brain			
6-Thei	s the main contro	ol center in your bo	ody.			
a. nerve	b. brain	c. spinal cord	d. sense			
7-The system helps us translate messages that come from our surroundings, such as smells and sounds.						
a. respiratory	b. digestive	c. nervous	d circulatory			
8- When can object comes suddenly close to your eyes occurs						
a.refix action	b. respiration	c. sensory organ	n d. sleeping			

2-Choose between brackets:



1-In order for human to remain, there must be an integration between the senses and the System to interact with the surrounding environment. (respiratory-nervous)

- 2-The eyes send messages to the..... through the nerves. (brain spinal cord)
- 3- Sensory receptors send............ (a massage from the brain to the muscles-a message from the sensory organs to the brain)
- 4- The time that the body takes to receive information from the environment and (reaction time-reflex action)

3-Put (v) or (x) or the following statements:

- 1-The age is the sensory organ that makes you feel the smoothness of cloth. (X)
- 3- Bats use their sense of smell to avoid danger. (x)
- 4- Dolphins have a strong sight sense. (x)
- 5- A person can identify spoiled food through the touch sense. (x
- 6- Echo helps dolphins locate their preys. (∨)
- 7- Snakes have the ability to rotate their heads in all directions. (x)
- 8- The brain is responsible for processing information. (V)
- 9- The nervous system plays a role in breathing . (x)

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4-Answer the following questions:

A) There are some nocturnal animals that depend on sensing heat to get their prey

Explain with example.

- (A) Snakes have specialized body parts in their face that allow them detect the heat of the warm blooded preys at night.
- B) Dolphins can Locate organisms and things under the surface of water. Explain the feature that helps dolphins to do so.
- (B) They depend on echolocation.
- (c) Rabbits have strong and long hind legs that help them jump quickly and escape in

dangerous times. Determine the type of adaptation.

c) Structural adaptation

Concept 3



1- Choose:

1-The organ responsible for the sense of sight

(the ear - the tongue - the nose - the eye)

2- العضو المسئول عن حاسة البصر (الأذن- اللسان- الأنف- العين)

2-energy affects on sensory receptors in the eye, causing a vision. (Sound - Kinetic - Light - Magnetic)

3-الطاقة.... تؤثر على المستقبلات الحسية في العين فتسبب الاحساس بالرؤية (الصوتية - الحركية- الضوئية- المغناطيسية)

3-Each of the following is considered a source of light except (the fire - the sun - the lamp- the eye)

3-كل مما يلي يعتبر مصدر للضوء ماعدا... (النار - الشمس- المصباح - العين)

4- There is a tapetum lucidum in all of the following except (the horse the cat - the human - the dog)

4 - يوجد البساط الشفاف في كل مما يأتي ماعدا (الحصان- القطة - الانسان- الكلب)

5- Which of the following is a source of light? (Eye - The moon - Fire - Mirror)

5 - أي مما يلي هو مصدر ضوء؟ (العين - القمر - النار - المرآة)

6- Our eyes help us see what's around us. What is the organ responsible for perceiving what we see with our eyes?

(The lungs—The esophagus-The stomach-The brain)

6- أعيننا تساعدنا على رؤية ما حولنا. ما هو العضو المسؤول عن إدراك ما نراه بأعيننا؟ (الرئتان- المريء- المعدة- الدماغ)

2-Put (V) or (x) or the following statements:



5- The moon is a source of light. (X)

- 5- القمر مصدر نور.
- 6- Both humans and animals need a source of light to see $(\sqrt{})$
 - 6- يحتاج كل من البشر والحيوانات إلى مصدر ضوء لرؤية $(\sqrt{})$
- 7- Nocturnal animals have eyes that are larger than the human eye. ($\sqrt{}$)
 - $(\sqrt{})$ الحيوانات الليلية لها عيون أكبر من عين الإنسان.
- 8- Some animals can see at night, such as a wild cat ($\sqrt{}$)
 - 8- بعض الحيوانات تستطيع الرؤية بالليل مثل قطة برية (V)
- 9- Human has a tapetum lucidum in his eye to help him see at night (x)
 - 9- يمتلك الإنسان البساط الشفاف في عينه لتساعده على الرؤية في الليل

3-Complete:

- 1- Cats' eyes are adapted to night vision due to the presence of .. (behind their eyes (Tapetum lucidum-wide eyes)
- 1- عيون القطط تتكيف مع الرؤية الليلية لوجود خلف أعينهم 2- When light falls on an object and the light....., we can see this object. (refracts - reflects)
 - 2- عندما يسقط الضوء على الجسم والضوء ، يمكننا رؤية هذا الشيء. (ينكسر ينعكس)



4-Answer the following:

- 1- Some animals have the ability to see in the dark because of Tapetum lucidum
- 2- Complete after noticing the following figure What happens until you see this apple?
- 3-The light falls on the apple then it is reflected on the eyes
- so the eyes transmit the message to the brain then he interprets it and translates it, so we see the apple.



3- يسقط الضوء على التفاحة ثم ينعكس على العينين فتنقل العين الرسالة إلى المخ ثم يفسرها ويترجمها فنرى التفاحة.

4- I saw an eye shining in the dark, this animal could be (cat (nocturnal animal))

4- رأيت عين تلمع في الظلام هذا الحيوان يمكن أن يكون (قطة (حيوان ليلي))



الأوراق مقدمه مجانا من

جروب منتدى العلوم والساينس easy scienceميس زينب عبدالعزيز

01010705572



October Revision

*(1) Choose the right answer:

Mr. Ahmed Elbasha

1. The presence of an insulating layer of, keep the penguin 's body warm.

- a. protein and thick downy feathers
- C . 1.1.1 1 C .1
- c. fat and thick downy feathers

- b. fat and thin downy feathers
- d . protein and thin downy feathers

2. Camouflage means that the animal

- a. can be seen easily among its surrounding.
- b. is hard to be seen among its surrounding.
- c. is easily to be seen by its preys.
- d. can be seen easily by its predators.

3. When we wear heavy clothes in winter, this is considered as a type of

a. adaptation for cold weather.

b. camouflage.

c. adaptation for hot weather.

d. ecosystem.

4. The color of fur of fennec foxes protects them from

a. wind.

b. rains.

c. hot Sun.

d. cold weather.

5. Bull sharks can live in

a. fresh water only.

b. salt water only.

c. seas, rivers and mud.

d. rivers, seas and oceans.

6. is considered as a behavioral adaptation in the panther chameleon.

- a. Puffing up its body during danger
- b. Each eye can move independently

c. V-shaped feet

d. Long sticky tongue

7. From the behavioral adaptation of acacia tree is that.....

- a. it has one very long root.
- b. it has sharp spines among its leaves.
- c. it has very tall trunk.
- d. it is producing poison to make a bad tasty leaves.

8. The acacia tree warning the other nearby acacia trees from animals by sending

a. a watery message in the air.

b. a watery message in the water.

c. a smelly message in the air.

d. a smelly message in the water.

9.	. Barbary fig keeps animals away like acacia trees by its				
	a. sharp spines.		b. poison.		
	c. smell.		d. long leaves.		
10	55-1	perform different fun	ections of a living organ	ism is obtained	
	from				
	a. breathing only.		b. food processing of	only.	
	c. breathing and runni	ng.	d. breathing and foo	od processing.	
11	.All the following are	organs in the digestive	system except		
	a. mouth.	b. nose.	c. stomach.	d. esophagus.	
12	.The stomach lies betw	veen esophagus and			
	a. mouth.	b. large intestine.	c. small intestine.	d. anus.	
13	.Which of the followin	g organs is not include	ed in breaking down of	food?	
	a. Mouth.	b. Stomach.	c. Lungs.	d. Small intestine.	
14	.Crushing the food in	your mouth is a functi	on of		
	a. stomach.	b. tongue.	c. saliva.	d. teeth.	
15	.In the , s	aliva moistens food an	d begins to break it dov	vn.	
	a. mouth	b. esophagus	c. small intestine	d. stomach	
16	.The organ that moves	s the food into the ston	nach is		
	a. mouth.	70	b. tongue.		
	c. esophagus.		d. small intestine.		
17	.The food passes from	the stomach to	in order to compl	ete the digestion	
	process.		1		
	a. esophagus		b. small intestine		
	c. large intestine		d. anus		
18		rials of the food pass fi	rom the small intestine i	into	
_	a. the liver.		b. the pancreas.		
	c. the brain.		d. the large intestine	Э.	
19	.In the large intestine	is absorb	ed from the undigested	food.	
	a. starch		b. fats		
	c. water		d. oil		
20			e useless to the body, so	the body must	
L	expel it outside the b	ody through the			
40	a. mouth.	b. small intestine.	c. large intestine.	d. anus.	

21. The following pieces of advice keep the digestive	21. The following pieces of advice keep the digestive system healthy except				
a. chewing food well.	b. avoid eating much fast meals.				
c. drinking a little amount of water.	d. practicing sports regularly.				
22. The oxygen gas moves from air into blood at the					
a. nose.	b. throat.				
c. trachea.	d. lungs.				
23. Changes that occur slowly to the environment,					
a. cause many organisms to die.					
b. cause many organisms to respire.	Col				
c. cause many organisms to disappear.					
d. give a chance to the organisms for adaptation.	0.0				
24. Human can negatively affect the nature by all	of the following activities, except				
a. cutting down forests.	b. throwing wastes in waterways.				
c. plowing grasslands.	d. removing air pollutants.				
25. Human activities and bad habits can pollute	of an ecosystem.				
a. air and soil only	b. soil and waterways only				
c. air and waterways only	d. air, soil and waterways				
26. The sensory organs of a dolphin help it do all of the following, except					
a. surviving.	b. searching for food.				
c. searching for water.	d. protecting itself under water.				
27. To describe the delicious taste of a piece of che	ocolate, we should use the sense of				
a. sight.	b. smell.				
c. taste.	d. touch.				
28.To describe color of your school bag to your f	riend, you should use the sense of				
a. sight.	b. smell.				
c. taste.	d. touch.				
29. Which of the following senses we use during wa	atching a film on the T.V?				
a. Sight and taste.	b. Sight and smell.				
c. Hearing and touch.	d. Sight and hearing.				

30.The five senses of humans include				
a. sight, hearing, touch, smell, and movement.				
b. sight, movement, taste, touch, and smell.				
c. taste, touch, movement, hearing, and smell.				
d. sight, hearing, taste, smell, and touch.				
31.To know if a cup of water is hot or cold, we nee	ed to use the sense of			
a. sight.	b. hearing.			
c. smell.	d. touch.			
32.We can distinguish between water and milk thi	rough			
a. taste and hearing.	b. sight and hearing.			
c. smell and hearing.	d. taste and sight.			
33.Both the spinal cord and nerves				
a. are located in the backbone.				
b. are located in the small intestine.				
c. transmit messages from the brain to all parts of	the body only.			
d. transmit messages from the brain to all parts of	f the body and vice versa.			
34.All of the following are sensory organs except t	he			
a. eyes.	b. nose.			
c. skin.	d. lungs.			
35. The nerves transmit information from and to t	he brain in the form of			
a. magnetic impulses.	b. electrical impulses.			
c. light impulses.	d. sound impulses.			
36. The organ that processes the information collection	eted through the sense of sight is			
a. the spinal cord .	b. the nerves.			
c. the brain.	d. the eyes.			
37. The system responsible for moving your hand a hot cup of tea, is the system.	away from danger, such as touching a			
a. digestive b. respiratory	c. nervous d. urinary			
38. The organ responsible for the sense of sight	8.The organ responsible for the sense of sight			

b. the tongue. a. the ear. c. the nose

39.One of behavioral adaptations that help the animal protect itself from enemies

a. blend in

b. extinction

c. immigration

d. reproduction

d. the eye.

40. The ability to turn	the head in all direction	18 ,			
a. Snakes	b. jerboa	c. dolphins	d. owl		
41Bat is	animal.				
a. nocturnal	b. morning	c. Harmful	d. don't fly		
42 energ	y affects on sensory rece	eptors in the eye, causi	ng a vision.		
a. Sound	b. Kinetic	c. Light	d. Magnetic		
43.All of the following	g are components of the	nervous system except	t		
a. Spinal cord	b. heart	c. nerves	d. brain		
44 is cov	ering body arctic fox				
a. heavy hair	b. heavy skin	c. thick fur	d. many feathers		
45.When you determi	ine a sweet or bitter tast	e, you have used			
a. the tongue	b. the eye	c. the ear	d. the nose		
46.Your sensation of	hot weather depends on	sensory receptors in t	he		
a. eyes	b. skin	c. nose	d. ear		
47. The light-reflecting	g materials like				
a. wood	b. mirrors	c. plastic	d. paper		
48. What is adaptation	n?				
a. The process by v	which new species appear				
b. Feature owned b	by living things to help the	em survive.			
c. A form of pollin	c. A form of pollination for trees.				
d. A process of get	ting rid of harmful substa	nces in living things.			
49. Animals that live i	n a hot environment hav	ve ears to	help her, and allow		
heat to escape to b	e cool.				
a. small	b. short	c. long	d. sharp		
50. Which of the follow	wing allows pass the ligh	it through it?			
a. a rock	b. moon	c. wood	d. glass		
51.Surface that regul	arly reflects light				
a. smooth and shin	y	b. dark with impu	urities		
c. transparent and	clean	d. rough and dark	<		
52.what carries messa	age from your eyes to yo	our brain when you see	something		
a. nerves	b. muscle	c. veins	d. glands		

Science	First Term	2022/2023	Grade 4		
53.Stomach is a par	53.Stomach is a part of the digestive system that				
a. chewing food.		b. converts solid foo	d into liquid		
c. absorbs nutrie	nts from food.	d. delivers food into	the esophagus.		
	orey (who eats meat). Its be	ak is strong and sharp. T	This structural		
a. see.	b. ripping meat	c. find a shelter.	d. escape.		
	system helping us to trans ich as smells and sounds.	late messages that come	from our		
a. respiratory	b. digestive	c. nervous	d. circulatory		

25. The respiratory system is responsible for the entry of air into the body.

26.Bats use their sense of smell to avoid dangers

27. Dolphins have a strong sense of sight.

(

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Science	First Term 2022/2023	Gra	ide 4
28.Exhaled air is loaded	with oxygen.	()
29.Both humans and ani	mals need a source of light to see	()
30. Wood is a transparen	t object that allows light to pass through it	()
31. Nocturnal animals ha	ave eyes that are larger than the human eye.	()
32. Some animals can se	e at night, such as a wild cat	()
33.Man cannot restore the	he ecosystem with any way		
34. Human has a tapetum	n lucidum in his eye to help him see at night)
35. Animals digging tren	iches is a form of structural adaptation	()
36. Food turns from com	plex to simple during digestion	()
37. The nervous system v	works separately from the five senses.	()
38. The skin is the sensor	ry organ that makes you feel the smooth of the cloth	()
39. Plants have two types	s of adaptation (structural and behavioral)	(<u> </u>

-	101					
	131	Write	tha	CCIAN	titic.	tarm.
7	(3)	AALICE	UIC	SCICI		CCITII.

1)	A property that helps animals to blend in with their surrounding Environment	()
2)	The organ where saliva moistens the food	()
3)	It presents in mouth and play an important role in crushing of food	()
4)	Liquid substance in your mouth that moistens the bite of food and begins to break it down	(
5)	A process through which the body gets oxygen from the air and expels out carbon dioxide)
6)	A large muscle that contracts during breathing in and relaxes during breathing out	()
7)	A structure that allows fish to breathe under water	()
8)	A gas that presents in air and water and is very important for breathing process.	()
9)	The environment in which fish live, and as it is clean the fish stay healthy.	()
10)	An organ that is responsible for breathing and contains little sacs, in humans, frogs, cows but not in fish.	()
11)	A property related to the bouncing back of sound to the dolphin when the sound waves hit objects under water	()
12)	The organ used to differentiate between different colors	()
13)	The organ used to differentiate between different types of food	()
14)	The organ used to differentiate between different scents.	()
15)	The sense used to differentiate between smooth and rough surfaces	()
16)	A system that controls all the body functions, and nerves are one of its parts.	()
17)	An organ composed of a group of nerves located in the backbone, and sends messages from and to the brain	()

18)	They include the eyes, nose, ears, tongue, and skin, and they receive information from the surroundings and send it to the brain	()
19)	A type of nerves in the sensory organs that is responsible for receiving information from the environment	()
20)	The time taken by an organism's body to respond to different reactions around it	()
21)	A system that works inside the human body such that it keeps the organism away from danger	()
22)	The organ which receives and processes the messages sent from the sensory receptors that are found in a jerboa's ears.	()
23)	An organ in the human body that can distinguish between the smell of vinegar and perfume.	()
24)	A sansa by which you can recognize the sour teste of lamon	()

# (1)	C		حا له	L _I	I :
₹ (4)	Comp	ete	tne	TOI	lowing:

1.	Among animals that can live in polar environment are and
2.	Among animals that live in hot environments are foxes, while
	foxes live in cold environments
3.	Different colors in bull shark's body is considered adaptation
4.	Among the plants that can survive in habitats that have leakage of water are
	and
5.	The human body use system to get nutrients from food and use
	system to get oxygen from air.
6.	Air enters and exits the human body through system
7.	The system which is responsible for moving your hand away when you touch a cup of
	hot water is the system
8.	From the opaque objects
9.	The eye sends messages to through the nerves
10.	The fat layer under the animal's skin to warm it is an adaptation
11.	Cats' eyes are adapted to night vision due to presence of behind their eyes
12.	The dolphin can locate its prey through its sense
13.	Fish breathe gas which dissolved in water
14.	The echo sound feature depends on Sense
15.	During exhalation, gas comes out of the lung.
16.	The lungs are one of the important organs in the system.
17.	The spinal cord is an important organ of the system

*****(5) Choose from column (B) what suits it in column (A):

(A)	(B)
1-Light	a- it depends on the body's sense of heat for predation
2-Owl	b- it depends on the echo of the sound in locating the prey.
3-The snake	c- An animal with a bowl- like face and strong sences of hearing and vision.
4-The bat	d- it is the visible form of energy that is transmitted in the form of waves.
5-Mirror- like membrane	e- A structural adaptation in the eye that provides some animals with better vision at night.
	f- A sense that helps us hear birds.

2	
(A)	(B)
1-is a common organ in the digestive and respiratory system.	a- Carbon dioxide
2-a gas necessary for respiration.	b- respiration of
3-the process of pushing air in and out of the body.	c- diaphragm
4-a muscle that has an important role in the breathing process.	d- throat(pharynx)
5 - Is a gas produced by respiration.	e- oxygen

(A)	(B)
1- nerves	a- bronchioles
2- branches inside the lung that resemble tree branches	b- carry messages to the brain via the spinal cord.
3- behavioral adaptation	c- The kapok tree emits beautiful scents to attract bats
4- vibrating motion	d- Structural adaptation of some animals to see better at night.
5- mirror- like membrane	e- A way to communicate between some animals

*	(6)	TRY	TO	ANS	WER:
0.00	(\mathbf{v})	1111	\cdot	/ 11 43	AA TIY

 Look at the opposite figure, then answer the following Give two examples of animals that live in this habitat. 	g questions:
b. Give two examples of plants that live in this habitat.	Desert
 c. Put (√) or (X): 1. Plants of this habitat are characterized by having long, the state of this habitat have large, wide leaves. 	nick roots. ()

2. Choose from column (A), what suits it in column (B) and (C):

Species Habitat		Way of breathing
1. Lizard	A. Polar region	a. Take in oxygen from air.
2. Fish	B. Desert	b. Take in oxygen from water.
3. Penguin	C. Water	c. Take in oxygen from air and water.

1	2	3
•	∠ →	 J

3. Write one animal and one plant that live in each environment of the following:

Environment	Animal	Plant
1. Desert :		
2. Rainfall forest :		
3. Polar reigon :		
4. Salt water :		

4. Observe the following figure, then choose the correct answer:

- 1. Arrow number (1) represents
- a. sound waves produced by the dolphin.
- b. the echo bounced back from the rocky object.
- c. light waves produced by the dolphin.
- d. light waves produced by the rocky object.

2. Arrow number (2) represents

- a. sound waves produced by the dolphin.
- b. the echo bounced back to the dolphin.
- c. light waves produced by the dolphin.
- d. light waves bounced back to the dolphin.

3. The dolphin uses this property to

- a. see objects underwater.
- b. see objects above the water surface.
- c. locate objects and living organisms on the beach.
- d. locate objects and living organisms under water.



4. The sense used by the dolphin in this picture is the

a. smell.

b. taste.

- c. hearing.
- d. sight.

5. Look at the opposite figure that shows the structure of the human nervous system, then answer the questions:

1. Which part spreads all around the human body?	Brain
	Spinal cord
2. Which part is found inside the backbone of the human body?	Nerves
3. Which part represents the main control center in the human body?	

6. Look at the opposite figure, then answer the questions l
--

• What does the figure represent?	· •
	2
• Label the figure:	3
1,	A COMPANY
2	
3,	10
Complete:	
1. Number () is found inside the backbone of the human body.	9
2. Number () represents the main control center in the human b	oody.
3. Number () spreads all around the human body parts.	

7. Choose from column (B) what suits it in column (A):

(A)	(B) artisque at to
1. Sensory	a. It is the main control centre in an animal body.
receptors	b. They are electrical impulses that reach the brain.
2. Nerves	c. It is found in the backbone and transmit messages from and
3. Brain	to the brain.
4. Spinal cord	d. They are found on the sensory organs, and the first to sense the surrounding environment.
	e.They receive information from the sensory receptors.

1	2	3	1
	۷	J	7

8. A dolphin	can locate	living	organisms	and	things	under t	he surfa	ce of
the water an	d explain	feature	that helps	the d	lolphin	to do s	SO	

9. Note the following two figures. Figures 1, 2	2: -	
A. Identify the name of each of the two processes in	1	· C
1		A CO
2	1	T
B. What happens to the diaphragm in Figure (1).	-9	
10. Look at the path of the light rays in pictures (A)) - (B).	
Determine which of the two objects is opaque and which is transparent		
	(B)	(A)

Model Answer

*(1) Choose the right answer:

1. C	9. A	17. B	25. D	33. D	41. A	49. C
2. B	10. D	18. D	26. C	34. D	42. C	50. D
3. A	11. B	19. C	27. C	35. B	43. B	51. A
4. C	12. C	20. D	28. A	36. C	44. C	52. A
5. D	13. C	21. C	29. D	37. C	45. A	53. D
6. A	14. D	22. D	30. D	38. D	46. B	54. B
7. D	15. A	23. D	31. D	39. A	47. B	55. C
8. C	16. C	24. D	32. D	40. D	48. B	

*(2) Put $(\sqrt{})$ or (X)

- (L) I G	. (') 0 ()	,				
1. $()$	7. (X)	13. (X)	19. (√)	25. (√)	31. (√)	37. (X)
2. (√)	8. (X)	14. (X)	20. (X)	26. (X)	32. $()$	38. (√)
3. (√)	9. (X)	15. (X)	21. (√)	27. (X)	33. (X)	39. (√)
4. (X)	10. (√)	16. (√)	22. (X)	28. (X)	34. (X)	5 2
5. (X)	11. (X)	17. (X)	23. (√)	29. (√)	35. (X)	
6. (X)	12. (√)	18. (√)	24. (X)	30. (X)	36. (√)	il d

(3) Write the scientific term:

- 1. Camouflage.
- 2. Mouth.
- 3. Teeth.
- 4. Saliva.
- 5. Respiration.
- 6. Diaphragm.

- 7. Gills
- 8. Oxygen gas
- 9. Water
- 10. lungs.
- 11. Echolocation.
- 12. Eyes.

- 13. Tongue.
- 14. Nose.
- 15. Touch.
- 16. Nervous system.
- 17. Spinal cord.
- 18. Sense organs.
- 19. Sensory receptors
- 20. Reaction time
- 21. Nervous system
- 22. Brain
- 23. Nose.
- 24. Taste

★(4) Complete the following:

- 1. penguin polar bear
- 2. fennec arctic
- 3. structural
- 4. acacia tree Palm tree barbary fig plant.
- **5.** digestive respiratory
- 6. Respiratory
- 7. nervous
- 8. Wood or carton
- 9. Brain
- 10. Structural
- 11. Tapetum lucidum

- 12. Hearing
- 13. Oxygen
- 14. Hearing
- 15. Carbon dioxide
- 16. Respiratory
- 17. Nervous

*****(5) Choose from column (B) what suits it in column (A):

- 1 1- d 2- c 3- a 4- b 5- e 2 1- d 2- e 3- b 5- a 3 1- b 2- a 5- d 3- c 4- e
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*****(6) TRY TO ANSWER:

1	 (A) Starred agama lizard and fennec Fox. (B) Palm tree and barbary fig plant. (C) 1. (✓) 2. (×) 	6	• The nervous system. • ① Brain. ② Spinal cord. ③ Nerves. • 1. (2) 2. (1) 3. (3)
2	1. B \rightarrow a 2. C \rightarrow b 3. A \rightarrow a	7	1. d 2. e 3. a 4. c
3	 Animal → starred agama. plant → Barbary fig Animal → panther chameleon plant → kapok tree Animal → penguin plant → pine tree Animal → Bull shark plant → Mangrove tree 	8	Echolocation
4	1. a. 2. b 3. d 4. c.	9	A: 1 – Inhalation 2 – Exhalation B: Contract
5	1. Nerves. 2. Spinal cord. 3. Brain.	10	Object (A) : Transparent Object (B) : Opaque

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EL MOTAMYEZ - SCIENCE Questions Bank REVISION on unit 1 & 2

QUESTION 01

Choose the correct answer

	Can	nouflage means	that	the animal				
1	a	can be seen easily among its surrounding	b	is hard to be seen among its surrounding	©	is easily to be seen by its preys	d	can be seen easily by its predators
0	The	liver and	pour	their juices into	the sr	mall intestine		
(2)	a	throat	b	esophagus	©	large intestine	d	pancreas
(3)	Bat	isanin	nal					
(3)	a	nocturnal	b	morning	©	Harmful	d	don't fly
	Saliv	a in the mouth	make	es the food beco	mes s	oft and mushy	with	the help of
4	1	teeth only	b		©	teeth and esophagus	d	teeth and tongue
-10	The	roots of palm pl	lants	help them to				35 W
5	a	Sta <mark>nd</mark> strong against the wind	b	reach the underground water	©	Fixation of plants in the soil	d	all the above
0	Who	en can object co	mes :	suddenly close t	o you	r eyes	occui	's Sold As
(6)	a	reflex action	b	respiration	©	sensory org <mark>an</mark>	d	sleeping
-90	Ani	mals that live in	a ho	t environment h	ave	ears to	help	her, and allow
(7)		t to escape to be	coo					
	(a)	small	(b)	short	(c)	long	(d)	sharp
0	The	is the ma	ain co	ontrol center in	your b	ody.		
(8)	a	nerve	b	brain	•	spinal cord	d	sense
0	Whi	ich of these exa	mples	of hiding or a	amou	flage		
9	a	camel broad feet	b	camel hump	©	power parrot wings	d	the fox is golden like its environment
0	The	animal that has	the a	ability to turn its	head	in all direction	is a/	an
(10)	a	snake	(b)	jerboa	©	dolphin	d	owl
		is covering the	body	of the Arctic for	x.			
	a	Heavy hair	b	Thick fur	©	Many feathers	d	Heavy skin
0	To	ommunicate th	rougl	n the sense of si	ght w	e need		
(12)	a	making sound	b	availability of light	©	hearing music	d	touching something

science questions Bank





	Ada	ptation includes	s cha	nges that		in the envi	ronm	ent.
13	a	reduce the chance of survival	b	reduce life span for individuals	•	improve species survival	d	reduce reproduction process
0	The	sense you use to	o ide	ntify the scent o	f a pe	rfume.		
(14)	a	taste	b	sight	©	smell	d	hearing
	Pan	ting of fennec fo	x be	longs to	ada	ptation		
15	a	only structural	b	only behavioral	©	both structural and behavioral	d	neither structural nor behavioral
	All	of the following	are c	omponents of th	ne nei	vous system ex	ccept	J. J. J.
(16)	a	Spinal cord	b	heart	©	nerves	d	brain
	One	of the structura	al ada	ptations of wate	er lily	plant is that		
(17)	a	it ha <mark>s lo</mark> ng roo <mark>ts</mark>	b	it has sharp spines	©	it has tiny leaves	d	it has wide leaves
(10)	Fish	extracts oxyger	out 1	of water by				
(18)	a	skin	b	gills	©	Lungs	d	fins
	You	r se <mark>ns</mark> ation of he	ot we	ather depends o	n ser	sory receptors	in th	e
(19)	a	eyes	b	skin	©	nose	d	ears 4
	2	are panting	to lo	ower their body	temp	erature		
20	a	Whales	b	Cats	©	Foxes	d	Bats
	Who	en you determin	ie a s	weet or bitter ta	ste, y	ou have used		30 3
(21)	a	the tongue	b	. the eye	•	the ear	d	the nose
	Ston	nach is a part of	the c	digestive system	that	1 3		
22	a	chewing food	b	converts solid	©	absorbs nutrients from	d	delivers food into the
	The same	e comi se élas usa		2000	A.	food		esophagus
(23)		ething	ssage	e from your eyes	to yo	di biain when	you	see
23	a	nerves	(b)	muscle	©	veins	d	glands
	Wha	at is adaptation	?		30			-50
24	a	The process by which new species appear.	b	A property possessed by living things to help them survive.	©	A form of pollination for trees.	d	A process of getting rid of harmful substances in living things.
	The	organ which is	respo	onsible for smelli	ng se	nse		
(25)	a	ear	b	tongue	©	nose	d	eye
n	Both	n of human and	fish .	2	7		yes .	
(26)		can breathe in	_	can breathe in		use oxygen gas		use carbon
	a	air	(b)	water	©	to breathe in	(d)	dioxide gas to breath in

science questions Bank





	Pen	iguins live in a p	olar e	limate which	2			
27	a	is one of the hottest places on Earth	b	is one of the coldest places on Earth	•	looks like the desert climate	d	looks like the forest climate
	The	presence of a th	nick v	vhite fur is an ac	daptat	ion in		
(28)	a	starred agama	b	polar bear	©	fennec fox	d	forest bear
1	From	m the negative e	effect	s of human activ	vities o	on the human	healtl	h are
29	a	lung damage and asthma	b	asthma and wounds	©	heart problems and wounds	d	lung damage and wounds
7.	In p	enguin's f <mark>eet</mark>	v	veave around e	ach ot	her.		
30	a	warm blood vessels and cold blood vessels	b	warm blood vessels and its toes	©	cold blood vessels and its toes	d	cold blood vessels and thick downy feathers
		system helps us		slate messages t	that co	ome from our s	urrou	ındings, such
31)	_	mells and sound	_					to and
	(a)	respiratory	(P)	digestive		nervous	(d)	circulatory
20		ou c <mark>atch a piece</mark> ers after a few	of ice	in your hand, y	ou wi	ill begin to lose	teelii	ng in your
32)	(a)	minutes	(b)	hours	(c)	days	(d)	weeks
	70		_			ZE - 11 - 9 N		WEEKS
33		color of fur of fo	(b)		(c)		(d)	and discontinue
150				rains		hot sun		cold weather
34)	_	aptation helps th	_		_		0	
	(a)	surviving	(b)	reproduction	©	hiding	(d)	death
36	The	organ that mov	es th	e food into the :	stoma	ch is.	0	
35)	a	mouth	b	tongue	©	esophagus	d	small intestine
	Crus	shing the food i	n you	r mouth is a fun	ction	of		
36)	a	stomach	b	tongue	•	saliva	d	teeth
		es from liver and	d pan	creas flow into.	力			
37)	a	mouth	b	stomach	©	small intestine	d	large intestine
38	surr	system h oundings, such	as sm	ells and sounds	-	p - 250	e fron	
3	(a)	respiratory	(b)	digestive	(c)	nervous	(d)	circulatory
		en you put your cles, your action		d on a hot surfac	ce, the	e brain sends a	mess	The Day
39)	(3)	Keep placing your hand	b	You feel pain	•	You will do nothing	d	pull your hand away from a hot object
12	All t	he following pr	opert	ies help arctic fo	oxes to	o stay warm ex	cept	
-0	(2)	thick fur coat	(h)	chart gars	0	tan-colored	(d)	short logs

				200	ρri	mary 4 - first tei	rm	00	عیدس ع	عحمو
41	The	esophagus is a	part o	of the digestive s	ysten	n that acts to				
	a	chew the food	b	nutrients from the food	•	from mouth to stomach	d	transfe the lun		0
				adaptations that	help	s the animal pr	otect	s itself	from	
(42)	_	mies is		10 ×15	0				4	J.
	(a)	camouflage	The state of the s	extinction	H 775	immigration	(d)	er 2010 17/1	oduct	
0		le is bird of prey ptation helps it		o eats meat). Its I 	oeak i	is strong and si	narp t	this stri	uctur	al
43)		see	_	ripping meat	©	find a shelter	d	escap	e K	
	Fish	extracts oxyge	n out	of the water by						
44)	a	skin	b	gills	©	lungs	d	fins		
	Ada	aptati <mark>on</mark> proces	ses in	clude changes th	nat	in the e	nviro	nment.		
(45)	_	reduce the	_	reduce the life	_	improve the		reduce	the	
9	(a)	chances of survival	(P)	span of individuals	(C)	survival of the species	(d)	reprod proces		1 J
		is cover	ina b			species		proces	75	
(46)	-	heavy hair		heavy skin	0	thick fur	d	many	feath	ers
30	_			d vessels that bri						
(47)	bod	The state of the s	Dioo	a vesseis trief bil			31000	Contain	us its	
0	a	cold water	b	warm water	©	cold blood	d	warm	bloo	d
~	The	starred agama	keeps	cool during a h	ot sur	nny day in dese	ert by	12 V		
(48)	a	eating green vegetables	b	drinking more water	©	.secreting more sweat	d	finding		de
(49)				aptation <mark>s t</mark> hat he	7					
9	a	Camouflage	b	extinction	C	immigration	d	. repre	oduct	ion
0	All t	he foll <mark>owing</mark> pr	opert	ie <mark>s help fennec f</mark>	oxes	to stay cool ex	cept			
50)	a	thick fur coat	b	make panting	©	tan-colored coat	d	extra-la	arge e	ars
	QUE	STION 02		put (🗸) or	(X)					
1		e fur that some behavioral ac		nals possess to	prote	e <mark>ct them from</mark>	the	cold	D(2)
2			-	le for processin	a info	ormation.			(
				to search for fo			forn	of	10	
3		havioral adapt				W 7	0	-30	()
4	Ar	erson can ide	ntify	spoiled food th	roug	h the touch se	ense		()
			100	that extend de				ve in	150	`
5	the	water scarce			P				1)
6	Fo	xes hove o stro	ng h	earing sense.					()
7	Pla	nts have two t	ypes	of adaptation (struc	tural and beh	avio	ral) .	(6)

8	The skin is the sensory organ that makes you feel the smooth of the cloth	()
9	Food turns from a complex form to simple during the digestion process	()
10	The nervous system works separately from the five senses.	()
0 1 2 3 4	During exhalation the diaphragm moves upward and relaxes.	(3))
12	Dolphins have a strong sense of sight	()
13	During exhalation the diaphragm expand	()
14	The ear is the sense organ responsible for seeing objects	()
15	Plant have structural adaptation only to help them survive and grow in different environments	()
16	A pharynx is a common cavity between the digestive and the respiratory system.	(30))
(17)	The brain responsible for processing information	()
(18)	Sending bad smells by Acacia tree is a behavioral adaptation.	(=)
17 18 19	Snakes have the ability to rotate their heads in all directions	()
20	Some animals that live in cold have a long ears; To help it to maintain the body temperature	(4)
21	Bees can know the sweet taste by their sense of smell	(1))
22	The feet of the penguin do not freeze because they have a layer of fat	()
23	Seeing with our eyes is a way to help us gather information about the environment around us	()
24	When running and making an effort, the number of breathing times decreases	(z)
25	The age is the sensory organ thot makes you feel the smoothness of cloth	()
26	The respiratory system is responsible for the entry of air into the body	()
27	Food passes from mouth to stomach through a narrow tube known as small intestine	<i>(</i>)
28 29 30 31 32	Snakes have the ability to rotate their heads in all directions.	()
29	The nervous system plays a role in breathing	6)
30	Echo helps dolphins locate their preys.	()
31	Bats use their sense of smell to avoid danger.	(>)
32	Plants have two types of adaptation (structural and behavioral)	()
33	A person can identify food which is not good through the sense of hearing.	(
(34)	Carbon dioxide is important for the respiration of animals	100	1



35	Living organisms can adapt their environmental conditions through structural adaptation and behavioral adaptation.	(5
36	The food passes through the large intestine before it goes into the small intestine	u Con)
37	Foxes have a strong sense of hearing.	1 ()
37 38 39 49 41	Animals digging trenches is a form of structural adaptation	()
39	Man cannot restore the ecosystem with any way	36)
40	Acacia trees grow in the Amazon forest	()
41	Exhaled air is loaded with oxygen	(9)
	QUESTION 03 complete the following sentences using words between	en brack	ets
1	In order for human to remain, there must be an integration between senses and the System to interact with the surrounding environm (respiratory-nervous)		
3	destroys the lungs and causes many diseases.(Breathing The time that the body takes to receive information from the environment (reaction time-reflex action)		
4	mix and crush food inside the mouth (Teeth only - Te <mark>et</mark> h ar	nd tong	jue)
5	The skin is an important organ of the system (Respiratory - Nervo	us)	
6	A tube with muscles that help push food into the stomach, called (Trachea – Esophagus) In order for the human being to remain alive, there is an integratio		
7	the senses and thesystem to interact with the surrounding environment . (Respiratory - Nervous)		een
8	The diaphragm rises up during theoperation (Inhalation - E	xhalati	on)
9	Fish breathe gas which dissolved in water (Oxygen - carbon di	oxide)	
10	The eye sends messages to through the nerves (Brain - spin	al cord)	1
11 (12)	During exhalation, gas comes out of the lung. (Oxygen - Carb	on dio	xide)
12	The echo sound feature depends on (Hearing sense - Sight sense)		-
13	The cactus plant has spines that protect it from being eaten by des and this is considered a form of(Behavioral Adaptation -Struct Adaptation)		nals,
14	The lungs are one of the important organs in thesystem. (Resp Digestive)	oiratory	35
15	The fatty layer under the animal's skin to warm it is considered aadaptation(structural – behavioral)		
16	The spinal cord is an important organ of thesystem (Nervous		
17	An animal that can escape from enemies because of the length of i (Arctic fox - jerboa)	ts hind	leg.

18	The fat layer under the animal's skin to warm it is anadapta (Structural - behavioral)	ation						
19	Sensory organs such as the nose and ear receive information to		5					
20	Sensory receptors send (a massage from the brain to the muscles-a							
	message nom the sensory organis to the brain,							
21)		g - sight)						
22	Mangroves trees grow in(Fresh water - salt water)	20						
	QUESTION 04 write scientific term for each of th	e followi	ng					
1	A process of breaking down food into smaller parts that the body cells absorb and use to get energy and growth	100	7					
2	Structural adaptation that fix the kapok tree in soggy soil and support its trunk	1	j)					
3	A system that helps in breaking down food into smaller parts	4	1					
4	It covers the body of some type of bears to blend in with snow and keeps its body warm.	1 3	, O					
5	A change in the behaviors or acts of a living organism to survive	4 P	21					
6	A feature in the bull shark, in which the upper surface of its body is darker than lower surface	1	0					
7	A gas presents in air and water that living organisms breath during respiration process		1					
8	A plant lives in wet land habitat and has wide leaves to absorb a large amount of sunlight	i i)					
9	Structure that allow fish to breath under water	1	201					
10	A tree lives in salt water and has long strong roots to resist waves	()					
1	The first organ in digestive system	-()					
12	A change in the body structure of a living organism to survive	1)					
13	bird that has a layer of fat and thick downy feathers to adapt extreme cold weather	185T	1					
14	A property that helps animals to blend in with their surrounding environment	1 38)]					
15	Structural adaptation that guard the leaves of acacia tree to prevent animals from eating them	-10 to	1					

The organ that absorbs water from undigested food and

Structural adaptation in water lilies that absorb large amount



of sunlight

become solid wastes

18	A tree that growsin amazon rainforesr of brazil and it has hand- shaped leaves	The Date of	1
19	An animal that changes the color of its fur color between winter and summer	12 3)
20	A large muscle that contracts during breathing in and relaxes during breathing out	e Por	1
21	A group of organs that work together to perform a specific job	1)
22	A type of foxes that has sandy-colored fur to adapt its desert environment.	14 Je	1
23	A liquid substance in the mouth that moistens food and begins to break it down	1 3	1
24	A tree that grows in Savannah forest and it has sharp spines	1	1
25	A shape of panther chameleon feet by it holds tightly to branches		7

QUESTION 05

choose from column (B) what suits it in column (A)

1

	(A)		(B)
1	It is similar in its processing of information to a computer.	a	The spinal cord
2	when a foreign object is brought into your eyes.	b	Using the sense of sight
3	when an object falls from your hands.	©	The brain
4	the transmission of commands to the muscles to contract.	d	The reflex action occurs

	(A)	(B)			
1	nerves	a	bronchioles		
2	branches inside the lung that resemble tree branches	b	carry messages to the brain via the spinal cord		
3	behavioral adaptation	©	The kapok tree emits beautiful scents to attract bats		
4	vibrating motion	d	Structural adaptation of some animals to see better at night.		
5	membraned like mirror	0	way to communicate between some animals		

3

	(A)		(B)
1	is a common organ in the digestive and respiratory system.	a	Carbon dioxide
2	a gas necessary for respiration.	b	respiration of
3	the process of pushing air in and out of the body.	©	diaphragm
4	a muscle that has an important role in the breathing process.	d	throat(pharynx)
5	Is a gas produced by respiration	(0)	oxygen

4

(B)			
a it does not absorb food.			
a type of adaptation that helps an animal to hide.			
ants use it to sense and communicate smells			
d it helps us see			
a muscle that plays an important role in breathing			

	(A)		(B)			
1	light	a	it depends on the body's sense of heat for predation.			
2	owl 50 250 3	b	it depends on the echo of the sound in locating the prey.			
3	the snake	©	An animal with a bowl-like face and strong sences of hearing and vision.			
4	the bat	d	it is the visible form of energy that is transmitted in the form of waves.			
5	mirror- like membrane	•	A structural adaptation in the eye that provides some animals with better vision at night.			
0	The Second of the Second	•	A sense that helps us hear birds			

QUESTION 06

Answer the following questions

- Butterflies that have a color like the color of the tree they live on are called this phenomenon.
- Rabbits have long and strong hind legs that help them to jump quickly and escape when danger determine the type of adaptation
- Note the following two figures.

 a. Identify the name of each of the two
 processes in Figures 1, 2: b. What happens to the diaphragm in Figure (1).



- The system that digests food to produce energy is
- Bats cannot see in the dark, but they hunt their prey at night because of....
- 6 Chameleons can move each of their eyes in a different direction, this adaptation helps them.....
- some dogs live in a cold environment, while some live in a hot environment. In your opinion, which one has thick fur, the cold environment or the hot environment? And why?
- 8 Leaves of plants that float above the surface of the water are so wide that they can.....
- Animals that have a thick layer of fat under the skin are animals that live in a..... environment
- Some plants have thorns to defend themselves against enemies.-What is the type of adaptation?
- A dolphin can locate living organisms and things under the surface of the water and explain the feature that helps the dolphin to do.......
- There are some nocturnal animals that depend on their sense of heat to get their prey

- Snakes depend on identifying their prey and catching them at night by sensing heat. Determine the reason.
- Rabbits have strong and long hind legs that help them jump quickly and escape in dangerous times. Determine the type of adaptation.
- (15) Complete the following sentences by using these words :-

انتهت الأسئلت مع أطيب الأمنيات بالنجاح والتوفيق







Model Answers

science

على مقررات شهر أكتوبر

BY

MRS. Amira Ahmed

cartoon science









EL MOTAMYEZ - SCIENCE Questions Bank REVISION on unit 1 & 2

QUESTION 01

Choose the correct answer

	Camouflage n	neans that	the animal					
1)	a can be see easily amo surroundi	ong its b	is hard to be seen among its surrounding	©	is easily to be seen by its preys	d	can be seen easily by its predators	
	The liver and	pour	their juices into	the sr	nall intestine			
2)	a throat	b	esophagus	©	large intestine	d	pancreas	
3	Bat isanim	al						
3)	a nocturna	al (b)	morning	©	Harmful	d	don't fly	
	Saliva in the n	nouth make	es the food beco	omes s	oft and mushy	with	the help of	
D	a teeth on	ly b	tongue only	©	teeth and esophagus	d	teeth and tongue	
	The roots of p	alm plants	help them to					
)	Stand stro against th wind		reach the underground water	©	Fixation of plants in the soil	d	all the above	0.00
	When can ob	ject comes :	suddenly close	to you	eyes	occur	rs 6	
)	a reflex ac				sensory organ		sleeping	
			t environment l					,
	heat to escape	e to be coo						
	(a) small	(b)	short	(c)	long	(d)	sharp	
P	Theis	the main co	ontrol center in	your b	ody.			
	a nerve	b	brain	©	spinal cord	d	sense	
	Which of thes	se examples	of hiding or a	camou	flage			
	a camel br	oad b	camel hump	©	power parrot wings	d	the fox is golde like its environment	n
	The animal th	at has the	ability to turn it	s head	in all direction	is a/		
	a snake	(b)	jerboa	©	dolphin	d	owl	
	is coverin	g the body	of the Arctic fo	X.	4 2 T			
)	Heavy h		Thick fur	©	Many feathers	d	Heavy skin	
	To communic	ate through	n the sense of si	ight we	e need	En .		
	a making s	We a	availability of light	©	hearing music	d	touching something	

science questions Bank





	Ada	ptation includes	s cha	nges that		in the envi	ronm	ent.
13	a	reduce the chance of survival	b	reduce life span for individuals	©	<u>improve</u> <u>species</u> <u>survival</u>	d	reduce reproduction process
0	The	sense you use t	o ide	ntify the scent of	f a pe	rfume.	7.0	
(14)	a	taste	b	sight	©	smell	d	hearing
	Pan	ting of fennec fo	x be	longs to	ada _l	ptation		
15)	a	only structural	b	only behavioral	©	both structural and behavioral	d	neither structural nor behavioral
0	All	of the following	are c	omponents of th	e ner	vous system ex	cept	, Jan. 19.
(16)	a	Spinal cord	b	heart	©	nerves	d	brain
0	One	of the structura	al ada	ptations of wate	er lily	plant is that		
(17)	a	it ha <mark>s lo</mark> ng roots	b	it has sharp spines	©	it has tiny leaves	d	it has wide leaves
(18)	Fish	extracts oxyger		of water by				
(IO)	a	ski <mark>n</mark>	b	gills	C	Lungs	d	fins
(19)	You	r se <mark>ns</mark> ation of h	ot we	ather depends of	n ser	sory receptors	in th	e
U	a	e <mark>yes</mark>	b	<u>skin</u>	C	nose	d	ears
60		<mark>a</mark> re panting	g to lo	ower their body	temp	erature 2		
20	a	Whales	b	Cats	©	<u>Foxes</u>	d	Bats
(1)	Who	en you determin	ne a s	weet or bitter ta	ste, y	ou have used		
(21)	a	the tongue	b	. the eye	©	the ear	d	the nose
y	Stor	nach is a part of	the c	dig <mark>est</mark> ive system	that	\ <u>}</u>		
22	a	chewing food	b	converts solid food into liquid	©	absorbs nutrients from food	d	delivers food into the esophagus
			ssage	e from your eyes	to yo	ur b <mark>rain w</mark> hen	you s	
(23)	_	ething	(0	•		
	(a)	nerves	(P)	muscle	(C)	veins	a	glands
	Wha	at is adaptation		A property				A process of
24	a	The process by which new species appear.	b	A property possessed by living things to help them survive.	•	A form of pollination for trees.	d	A process of getting rid of harmful substances in living things.
6	The	organ which is	respo	nsible for smelli	ng se	nse		To the
(25)	a	ear	b	tongue	©	nose	d	eye
y	Boti	n of human and	fish .	30				STI
26	a	can breathe in air	b	can breathe in water	©	use oxygen gas to breathe in	d	use carbon dioxide gas to breath in



	Pen	iguins live in a p	olar	climate which	5			
(07)	2	is one of the	O ICII	is one of the				
	a	hottest places on Earth	b	coldest places on Earth	•	looks like the desert climate	d	looks like the forest climate
	The	presence of a th	nick v	vhite fur is an ac	daptat	ion in		
(28)	a	starred agama	b	polar bear	©	fennec fox	d	forest bear
	Fron	n the negative e	effect	s of human activ	vities o	on the human	healt	h are
29	a	lung damage and asthma	b	asthma and wounds	©	heart problems and wounds	d	lung damage and wounds
	In p	enguin's feet	v	veave around e	ach ot	her.		
30	a	warm blood vessels and cold blood vessels	b	warm blood vessels and its toes	©	cold blood vessels and its toes	d	cold blood vessels and thick downy feathers
0		system helps us		slate messages t	that co	ome from our s	urrou	ındings, such
(31)	-	mells and sound	-		0			15 at 1
	(a)			digestive		nervous	d	circulatory
0		u catch a piece	of ice	e in your hand, y	ou wi	ill begin to lose	feeli	ng in your
(32)		ers after a few	(b)		0			af y
	70	minutes			(C)	days		weeks
(33)	-	color of fur of fe	-			from		
	(a)	wind	(b)	rains	©	hot sun	d	cold weather
6	Ada	aptation helps th	ne liv	ing organism in	all the	e following cha	racte	ers except
34	a	surviving	b	reproduction	©	hiding	d	death
0	The	organ that mov	es th	e food into the	stoma	ch is.		
35)	(a)	mouth	b	tongue	©	esophagus	d	small intestine
	Crus	shing the food in						
(36)	(a)	stomach	(b)	tongue	(c)	saliva	(d)	teeth
		es from liver and		,		Selliver		<u>teeth</u>
(37)	~	es ironi liver and	u pan	icreas now into.	-	emall		
0	(a)	mouth	(b)	stomach	(c)	<u>small</u> intestine	d	large intestine
N. J.	The	system h	elpin	g us to translate	e mess	THE RESERVE TO SHARE THE PARTY OF THE PARTY	e fron	n our
(38)	surr	oundings, such	as sm	nells and sounds	4			
3	(a)	respiratory	(b)	digestive	(c)	nervous	d	circulatory
		en you put your cles, your action		d on a hot surfac	ce, the	brain sends a	mess	P. D. D.
(39)	a	Keep placing your hand	b	You feel pain	©	You will do nothing	d	pull your hand away from a hot object
0	All t	he following pr	opert	ies help arctic fo	oxes to	o stay warm ex	cept	The state of the s
40	a	thick fur coat	b	short ears	•	tan-colored	d	short legs

science questions Bank





	The	esophagus is a	part o	of the digestive s	ysten	n that acts to		
(41)	a	chew the food	b	absorbs nutrients from the food	©	transfer food from mouth to stomach	d	transfer air to the lungs
(42)		e of the behavionies is	oural	adaptations that	help	s the animal pr	otect	s itself from
	(a)	camouflage	(b)	extinction	©	immigration	d	reproduction
43		le is bird of prey ptation helps it		o eats meat). Its l 	beak	is strong and sl	harp t	this structural
49	a	see	b	ripping meat	©	find a shelter	d	escape
	Fish	extracts oxyge	n out	of the water by			340	
4	a	skin	b	gills	©	lungs	d	fins
	Ada	aptati <mark>on</mark> proces	ses in	clude changes tl	nat	in the e	nviro	nment.
45)	a	reduce the chances of survival	b	reduce the life span of individuals	©	improve the survival of the species	d	reduce the reproduction process
(A)		is cover	ring b	ody arctic fox				
46)	a	heavy hair	b	heavy skin	©	thick fur	d	many feathers
(47)	bod	у		d vessels that bri		7 31 2	s feet	towards its
	(a)	cold water	(b)	warm water	(C)	cold blood	(d)	warm blood
(The	starred agama	keeps	s cool during a h	ot sui	nny day in dese	ert by	
48	a	eating green vegetables	b	drinking more water	©	.secreting more sweat	d	finding a shade
49)			_	aptation <mark>s t</mark> hat he			-	
0	(a)	Camouflage		extinction	(C)	immigration		. reproduction
60	All t	he fol <mark>lowing</mark> pr	opert	ies help fennec t	foxes	11 2	cept	
50	a	thick fur coat	b	make panting	C	tan-colored coat	d	extra-large ears
	QUE	STION 02		put (🗸) or	(X)			
1		e fur that some behavioral ac		nals possess to tion	prote	ect them from	the	cold
2	The	e brain is respo	onsib	le for processin	a infe	ormation.		
3	The	Control of the contro	birds	to search for fo			forn	n of
4		11		spoiled food th	roug	h the touch se	nse	X
5	Pla		50 TO	that extend de	100			
6	Fo	xes hove o stro	ng h	earing sense.				45°
7			7.	of adaptation (struc	tural and beh	avio	ral) . 🗸



8	The skin is the sensory organ that makes you feel the smooth of the cloth	V
9	Food turns from a complex form to simple during the digestion process	~
10	The nervous system works separately from the five senses.	×
1	During exhalation the diaphragm moves upward and relaxes.	-
12	Dolphins have a strong sense of sight	×
13	During exhalation the diaphragm expand	1
14	The ear is the sense organ responsible for seeing objects	×
15	Plant have structural adaptation only to help them survive and	×
16	grow in different environments A pharynx is a common cavity between the digestive and the respiratory system.	•
17	The brain responsible for processing information	Y -
18	Sending bad smells by Acacia tree is a behavioral adaptation.	1
19	Snakes have the ability to rotate their heads in all directions	×
20	Some animals that live in cold have a long ears; To help it to maintain the body temperature	×
21	Bees can know the sweet taste by their sense of smell	×
22	The feet of the penguin do not freeze because they have a layer of fat	*
23	Seeing with our eyes is a way to help us gather information about the environment around us	Y
24	When running and making an effort, the number of breathing times decreases	×
25	The age is the sensory organ thot makes you feel the smoothness of cloth	×
26	The respiratory system is responsible for the entry of air into the body	V
27	Food passes from mouth to stomach through a narrow tube known as small intestine	*
28	Snakes have the ability to rotate their heads in all directions.	×
29	The nervous system plays a role in breathing	×
30	Echo helps dolphins locate their preys.	Y
31	Bats use their sense of smell to avoid danger.	×
32	Plants have two types of adaptation (structural and behavioral)	1
33	A person can identify food which is not good through the sense of hearing.	×



	Carbon dioxide is important for the respiration of animals
)	Living organisms can adapt their environmental conditions through structural adaptation and behavioral adaptation.
)	The food passes through the large intestine before it goes into the small intestine
1	Foxes have a strong sense of hearing.
)	Animals digging trenches is a form of structural adaptation
)	Man cannot restore the ecosystem with any way
	Acacia trees grow in the Amazon forest
)	Exhaled air is loaded with oxygen

OUESTION 03

complete the following sentences using words between brackets

- In order for human to remain, there must be an integration between the 1 senses and the System to interact with the surrounding environment. (respiratory-nervous)
- 2destroys the lungs and causes many diseases.(Breathing - Pollution)
- The time that the body takes to receive information from the environment and (reaction time-reflex action)
- **4 5** mix and crush food inside the mouth........ (Teeth only - Teeth and tongue)
- The skin is an important organ of the system... (Respiratory Nervous)
- A tube with muscles that help push food into the stomach, called........ 6 (Trachea – Esophagus)
- In order for the human being to remain alive, there is an integration between 7 the senses and thesystem to interact with the surrounding environment. (Respiratory - Nervous)
- 8 The diaphragm rises up during theoperation (Inhalation - Exhalation)
- Fish breathe gas which dissolved in water (Oxygen carbon dioxide)
- The eye sends messages to through the nerves (Brain spinal cord)
- 9 (9) During exhalation,...... gas comes out of the lung. (Oxygen - Carbon dioxide)
- (12) The echo sound feature depends on (Hearing sense - Sight sense)
- The cactus plant has spines that protect it from being eaten by desert animals, (13) and this is considered a form of Behavioral Adaptation -Structural
- Adaptation)
- The lungs are one of the important organs in thesystem. (Respiratory 14 Digestive)
- The fatty layer under the animal's skin to warm it is considered (15) a.....adaptation(structural – behavioral)
- (16) The spinal cord is an important organ of thesystem (Nervous - Digestive)





- An animal that can escape from enemies because of the length of its hind leg. (Arctic fox jerboa)
- The fat layer under the animal's skin to warm it is anadaptation (
 Structural behavioral)
- Sensory organs such as the nose and ear receive information from the surrounding environment and convert it to (Nutrients Nerve signals)
- Sensory receptors send...... (a massage from the brain to the muscles-a message from the sensory organs to the brain)
- The dolphin can locate its prey through its sense......(hearing sight)
- Mangroves trees grow in.....(Fresh water salt water)

OUESTION 04

write scientific term for each of the following

- A process of breaking down food into smaller parts that the body cells absorb and use to get energy and growth
- Structural adaptation that fix the kapok tree in soggy soil and support its trunk
- 3 A system that helps in breaking down food into smaller parts
- It covers the body of some type of bears to blend in with snow and keeps its body warm.
- **5** A change in the behaviors or acts of a living organism to survive
- A feature in the bull shark, in which the upper surface of its body is darker than lower surface
- A gas presents in air and water that living organisms breath during respiration process
- A plant lives in wet land habitat and has wide leaves to absorb a large amount of sunlight
- Structure that allow fish to breath under water
- A tree lives in salt water and has long strong roots to resist waves
- 11) The first organ in digestive system
- 12 A change in the body structure of a living organism to survive
- bird that has a layer of fat and thick downy feathers to adapt extreme cold weather
- A property that helps animals to blend in with their surrounding environment
- Structural adaptation that guard the leaves of acacia tree to prevent animals from eating them
- The organ that absorbs water from undigested food and become solid wastes
- Structural adaptation in water lilies that absorb large amount of sunlight

digestion process

Buttress roots

Digestive system

Thick white fur

behavioral adaptation

Countershading

oxygen gas

Water lily plant

gills

mangrove tree

mouth structural adaptation

<u>Penguin</u>

camouflage

Sharp spines

large intestine

Wide leaves



science questions Bank

primary 4 - first term



A tree that growsin amazon rainforesr of brazil and it has handshaped leaves

kapok tree

An animal that changes the color of its fur color between winter and summer

Arctic fox

A large muscle that contracts during breathing in and relaxes during breathing out

diaphragm

(21) A group of organs that work together to perform a specific job

system

A type of foxes that has sandy-colored fur to adapt its desert environment.

Fennec fox

A liquid substance in the mouth that moistens food and begins to break it down

saliva

A tree that grows in Savannah forest and it has sharp spines

acacia tree

A shape of panther chameleon feet by it holds tightly to branches

V-Shaped

QUESTION 05

choose from column (B) what suits it in column (A)

0

	(A)	(B)		
1	It is similar in its processing of information to a computer.	a	The spinal cord	3-12
2	when a foreign object is brought into your eyes.	b	Using the sense of sight	0
3	when an object falls from your hands.	©	The brain	
4	the transmission of commands to the muscles to contract.	d	The reflex action occurs	1 20

2

	(A)		(B)	
1	nerves	a	bronchioles	
2	branches inside the lung that resemble tree branches	b	carry messages to the brain via the spinal cord	
3	behavioral adaptation	©	The kapok tree emits beautiful scents to attract bats	
4	vibrating motion	d	Structural adaptation of some animals to see better at night.	
5	membraned like mirror	(0)	way to communicate between some animals	

3

	(A)		(B)
1	is a common organ in the digestive and respiratory system.	a	Carbon dioxide
2	a gas necessary for respiration.	b	respiration of
3	the process of pushing air in and out of the body.	©	diaphragm
4	a muscle that has an important role in the breathing process.	d	throat(pharynx)
5	Is a gas produced by respiration	•	oxygen
		4	
	(A)		(B)
D	sight	a	it does not absorb food.
2	camouflage	b	a type of adaptation that helps an animal to hide.
3	esophagus	©	ants use it to sense and communicate smells
4	diaphragm	d	it helps us see
5	smell	a muscle that plays an importa	
		5	
	(A)		(B)
D	light	a	it depends on the body's sense of heat for predation.
2	owl 50 250 To	b	it depends on the echo of the sound in locating the prey.
3	the snake	©	An animal with a bowl-like face and strong sences of hearing and vision.
4	the bat	d	it is the visible form of energy that is transmitted in the form of waves.
5	mirror- like membrane	•	A structural adaptation in the eye that provides some animals with better vision at night.
9	The test of the state of	•	A sense that helps us hear birds

QUESTION 06

Answer the following questions

- Butterflies that have a color like the color of the tree they live on are called this phenomenon . (Camouflage)
- Rabbits have long and strong hind legs that help them to jump quickly and escape when danger determine the type of adaptation(Structural adaptation)
- Note the following two figures.
 a. Identify the name of each of the two processes in Figures 1, 2: 1- inhalation process
 - 2- exhalation process
 - b. What happens to the diaphragm in Figure (1).

Diaphragm move down

- The system that digests food to produce energy is ..digestive system..
- Bats cannot see in the dark, but they hunt their prey at night because of..... echolocation.....
- 6 Chameleons can move each of their eyes in a different direction, this adaptation helps them..... in catch prey find food_____
- some dogs live in a cold environment, while some live in a hot environment. In your opinion, which one has thick fur, the cold environment or the hot environment? And why? (cold environment - to warm it)
- 8 Leaves of plants that float above the surface of the water are so wide that they can absorb sunlight
- Animals that have a thick layer of fat under the skin are animals that live in a.... cold.... environment



- Some plants have thorns to defend themselves against enemies.-What is the type of adaptation? a structural adaptation.
- A dolphin can locate living organisms and things under the surface of the water and explain the feature that helps the dolphin to do (echolocation)
- There are some nocturnal animals that depend on their sense of heat to get their prey . (snake)
- Snakes depend on identifying their prey and catching them at night by sensing heat. Determine the reason (as it is not seen at night)
- Rabbits have strong and long hind legs that help them jump quickly and escape in dangerous times. Determine the type of adaptation. Structural adaptation
- (15) Complete the following sentences by using these words:-

(Camouflage – habitat – adaptation – predator – prey)

- a- The environment where living organisms live in is called... habitat....
- b- An animal that hunts and eats another animal is called a... predator,
- while... prey.... is an animal that is hunted and eaten by another animal.
- c- the characteristic that helps living organisms to survive and reproduce in the ecosystem is known as... adaptation....
- d-Type of adaptation that some animals use to hide from their predators or their prey is known ascamouflage.....

تم يحمد الله

بسم الله الرحمن الرحيم " إِنَّ الَّذِينَ آمَنُوا وَعَمِلُوا الصَّالِحَاتِ إِنَّا لَا نُضِيعُ أَجْرَ مَنْ أَحْسَنَ عَمَلًا " صدق الله العظيم

4 th Primary, October Revis	I S J S in t	DHA SAMY	
Choose ?	ion		
	in control center of th	ne nervous system.	
A Nerves	B Brain	C Spinal cord	D Heart
2 is a chang	ge in living organism's	characteristics over ge	eneration to survive.
A Extinction	B Migration	C Growth	D Adaptation
3 Is a prope	erty that helps living o	rganism to hide from i	ts prey or predator.
A Camouflage	B Migration	C Echolocation	D Hibernation
4. Echolocation is used	by bat and	to locate their prey.	
A Owl	B Tarsier	C Honeybees	D Dolphin
5. The senses	s the body heat of its	orey at night.	
A Tarsier	B Jerboa	C Owl	D Snake
6. All of these are rept	iles except		
A Chameleon	B Snake	C Jerboa	D Agama lizard
7. Adult frogs can inha	le oxygen from water	by using their	
A Lungs	BSkin	gills	D Ears
8. Fish respire oxygen	gas from water throug	sh	
A Skin	B Gills	C Lungs	D Heart
9is the	system that is respons	sible for reflex actions.	
A Nervous system	B Respiratory syste	em Curinary system	D digestive system
10. The presence of thick	c white fur is a physica	al adaptation in	
A Fennec fox	B Arctic fox	C Forest bear	D Agama lizard
11. All of these live in the	e same habitat except	lice	
A Chameleon	B Golden frog	C Acacia tree	D Kapok tree
12. The Blend	d in with big green tre	es in rainforest to hide	from enemies.
A Agama lizard	B Fennec fox	C Arctic fox	D Chameleon
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凡	S A B S A B S A B S A S A S A S A S A S	8 3						
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\$	13. The sense of In dolphins is stronger than that of the human.	Ş						
<u>.</u>	A Sight B Hearing C Touch D Taste	<u>.</u>						
ğ	14. All of these from the components of the digestive system except							
5	A Mouth B Stomach C Lungs D Small intestine	5						
8	15. All of these from the components of the respiratory system except							
ğ	A Lungs B Throat C Trachea D Stomach	×						
ð	16. All of these from the components of the nervous system except	Ş						
<u></u>	A Brain B Heart C Nerves D Spinal cord	<u></u>						
Š.	17 Is a common organ between digestive and respiratory system.	_ <u> </u>						
り月	A Stomach B Lungs C Throat D Esophagus) I						
⊖ ⊠	18 has weave blood vessels in its feet and toes to keep it warm.	— <u> </u>						
S	A Polar bear B Penguin C Arctic fox D Owl	S						
Д Д	19 Can rotate (turn) its head in all directions.							
ğ	A Bats B Owl C Jerboa D Chameleon	ğ						
5	20 can move its eyes in two opposite directions.	\$						
0	A Chameleon B Owl C Snake D Penguin	4						
ğ	21 Has large leaves to absorb a big amount of sunlight.	×						
5	A Barbary fig B Water lily C Pine tree D Palm tree	5						
<u>⊖</u> ∀	22. All of these have spines except							
×	A Acacia tree B Cactus C Barbary fig D Kapok tree	8						
ў	23 has needle leaves.	— <u>Э</u>						
<u>⊖</u> 8	A Kapok tree B Pine tree CICN C Acacia tree D Water lily	8						
Š	24 is the main control center in the humans and animals bodies.	× ×						
卫	A Heart B Brain O H A Spinal cord D Lungs	旦						
8	25. All of these are found in polar habitat except	8						
5	A Pine tree B Polar bear C Arctic fox D Fennec fox	J						
8	© 0109-800-5315 X	X X						
	R Q 📦 R Q 📦 R Q 📦 R Q 📦 R Q 📦 R Q 📦 R Q 📦 R Q 📦 R Q 📦 R Q 📦 R Q 📦 R Q 📦 R Q	1815						

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5	26.	A Fennec fox	B Arctic fox	C Caracal	D Jerboa
		A Felillec lox	B Aretic lox	Caracai	Jerboa
8	27.	All of these live in deser	rt habitat except		2
少		A Jerboa	B Chameleon	C Caracal	D Fennec fox
8	28.	All of these are natural	changes except		8
\$		A Climate change	B Air pollution	C Flood	D Wildfires
4	29.	Both hav	e an excellent night vi	sion to hunt.	
ğ		A Snake and owl	B Owl and bat	Cat and snake	D Owl and cat
5	30.	has an in	sulating fat layer and	thick downy feathers	. <u>4</u>
		A Polar bear	B Arctic fox	C Penguin	D Fennec fox
8	31.	Both and	has brown fur.		Š.
夏		A Polar bear, arctic fox	B Arctic fox, dark bear	C Polar bear, dark bea	ar D Penguin, dark bear
8	32.	moistens foo	d in mouth.		8
5		A Acid	B Pancras juice	C Liver juice	D Saliva
3	34.	Starch is changed into s	ugar in	7	2
ğ		A Stomach	B Mouth	C Small intestine	D Large intestine
\$	35.	Juices of liver and panci	reas are poured in		<u> </u>
		A Small intestine	B Mouth	C Large intestine	D Stomach
8	36.	Food is changed into so	upy liquid in the		8
₹ □		A Mouth	B Stomach	C Small intestine	D Large intestine
8	37.	lives in	salt and fresh water.	ce	8
<u>\$</u>		A Penguin	B Bull shark	C Fennec fox	D Chameleon
<u>Z</u>	38.	Digestive starts with	and ends wit	ы. А.(УҮ	
ğ		A Mouth, small intestine	B Mouth, anus	C Mouth, throat	D Throat, small intestine
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4 th Primary, October Revisio	Ms. SOI	HA SAMY	
39. All of these have struc	tural adaptation in th	eir eyes, so it is strong	vision except
A Fishing cat	B Bat	C Owl	D Panther chamele
40. All of these have struc	ctural adaption in the	eir ears to have sharp s	ense hearing except .
A Jerboa	B Fennec fox	C Owl	D Snake
41. All of these are noctu	rnal animals except		
A Penguin	B Bats	C Snake	D Owl
42. Water is absorbed f	rom undigested food	in the	
A Small intestine	B Stomach	C Esophagus	D Large intestine
43. You can recognize the	sour taste of vinega	r by the sense of	
A Sight	B Taste	C Smell	D Hearing
44. You can differentiate	between water and	vinegar by using sense	s of
A Sight and smell	B Smell and hear	ing C Smell and taste	e D Smell and tou
45. All of these have extr	a-large ears except	.,	
A Caracal	B Fennec fox	C Arctic fox	D Jerboa
46. The exists in	the backbone of the	human body.	
A Brain	B Spinal cord	C Muscles	D Heart
47. All of these found in	the rainforest habitat	t except	
A Panther chameled	on B Kapok tree	C Acacia tree	D Golden frog
48. The proce	sses the received info	rmation and translate	it.
A Nerves	B Spinal cord	C Heart	D Brain
49. The nerves of	Are directly con	nected to the brain.	
A Heart and eyes	B Heart and hand	ds C Eyes and toes	D Eyes and hand
50 Spread all a	round the human bo	dy to carry messages t	o and from them.
A Brain	B Spinal cord	C Nerves	D Muscles

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4 th P	rimary, October Revision	Ms. SOHA	SAMY X X	
51.	The system co	ontrols all the body fu	nctions of the living	organism.
	A Digestive	B Respiratory	C Nervous	D Circulatory
52.	The sends infor	rmation to the brain v	vhen you smell a per	fume scent
	A Eye	B Nose	C Ear	D Tongue
53.	Are the sense	es uses to distinguish	between milk and w	ater.
(A Taste and hearing	B Taste and sight	C sight and hear	ing D Smell &hearing
54.	When your hand touch	es the spines of a cac	ctus, it is withdrawn i	in
	A One minute	B Two minutes	C A second	D Less than a second
55.	The sense of the eyesig	tht in the	is very strong.	
	A Owl	B Bat	S nake	D A and C
56.	A snake can locate the	jerboa at night by the	e emitted fro	m jerboa's body.
	A Light	B Sound	C Smell	D Heat
57.	All of these have a sha	rp sense of hearing e	xcept the	
(A Fennec fox	B Snake	C Owl	D Dolphin
58.	Nutrients are absorbed	from digested food i	n	
	A Small intestine	B Large intestine	C Stomach	D Esophagus
59.	Oxygen gas passes from	m to lungs.		
	A Mouth	B Esophagus	C Trachea	D Nose
60.	Panther chameleon is	a type of the		
	A Birds	B Lizards	C Amphibians	D Birds
61.	Both dolphin and owl l	have sharp sense of		
	A Sight	B Smell	Hearing	D Touch
62.	When the reaction tim	e of animal is very lor	ng, that means that a	nimal can
	A Survive	B Reproduce	C Be at risk	D Run away fast
9 0)109-800-5315			5
8 5	CSECSESES	1 8 3 B 8 3 B 8 4	3 4 5 5 4 5 5 5 5	SABSABSABS

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4 th Primary, October Revisi	on		
63. Exchange of gases oc	curs in the		
A Trachea	B Throat	C Lungs	D Nose
64. The Is a no	cturnal animal that ha	s a bowled shaped fac	e.
A Bat	B Dogs	C mongoose	D Owl
65. Lungs are from the co	omponents of the	system.	
A Digestive	B Respiratory	C Nervous	D Circulatory
66. The is fo	und in both digestive	and respiratory system	1.
A Esophagus	B Trachea	C Throat	D Larynx
67 is and animal t	hat can fly and depen	ds on the bouncing sou	und to catch its prey.
A Dolphin	B Bat	C Snake	D Owl
68has strateg	y of camouflage called	coun <mark>ter</mark> shading to hu	nt in water.
A Bat	B Dog	C Bull shark	D Owl
69. The is a bird	d that can swim.		
A Bat	B Penguin	C Owl	D Polar bear
70. All of these are adap	ted to live in polar ha	bitat except	
A Pine trees	B Polar bear	C Penguin	D Fennec fox
71. Downy thick feather	s on penguin's body to	rapagainst its	skin.
A Cold water	B Cold air	C Warm air	D Warm water
72. Acacia tree's trunk ca	an store	151	
A Fats	B Water	C Milk	D Air
73. Plants of dry desert i	must havet	o get water from the s	and soil.
A Long trunk	B Long roots	Large leaves	D Long branches
74. The food moves to st	omach through the	JAMI	
A Throat	B Esophagus	C Tongue	D Small intestine
© 0109-800-5315			
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J §	SEXSERICE IN SCIENCE I					
8	4 th Primary, October Revision					
5	75 covers the bodies of bears in polar habitat.					
3	A Dark fur B Dark feathers C Hair D White fur					
Š.	76 is the liquid found in mouth.					
<u>う</u>	A Acid B Lemon juice C Saliva D Milk					
<u>→</u> ≼	77 like toads have two ways of breathing.					
<u>×</u> 5	A Fish B Reptiles C amphibians D Birds					
r <u> </u>	78 is a Plant that is adapted to live in salt water.					
<u> </u>	A Bull shark B Pine tree C Water lily D Mangrove tree					
5	79. The Can change its body coat color from season to other.					
3	A Fennec fox B Arctic fox C Polar bear D Penguin					
<u> </u>	80. Acacia tree is adapted to live in Habitat.					
<u>2</u>	A Tundra desert B Rainforest C Wetland D Savannah forest					
8	81. All of these can get in oxygen from air except					
5	A Palm tree B Toad C Bull shark D Frog					
3	82. Cutting down forests may cause the disappearance of the					
<u> </u>	A Agama lizard B Bull shark C Polar bear D Panther chameleon					
2	83. All of the following belongs to the respiratory system except					
<u> </u>	A Nose B Throat C Stomach D Lungs					
<u> </u>	84 has hand-shaped leaves.					
<u>2</u> 3	A Water lily B Kapok tree C Palm tree D Acacia tree					
<u> </u>	85. All of these plants are adapted to live in dry desert except the					
2	A Palm tree B barbary fig Pine tree D Cactus					
3	86. The branches of grow and gather on the top.					
\$	A Palm tree B Acacia tree C Kapok tree D Water lily					
<u> </u>	© 0109-800-5315					
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4 th Primary, October Revis	ion Ms. Soh	IA SAMY	
87. Panther chameleon	has a very long sticky	to catch ins	ects.
A Feet	B Tongue	C leg	D Tail
88. All of these have sar	ndy colored coat except	t	~
A Fennec fox	B Caracal	C Arctic fox	D Camel
89 have spe	cial blood vessels in the	eir feet, to survive in p	oolar habitat.
A Polar bear	B Penguin	C Fennec fox	D Frog
90. Adaptation helps the	e living organisms in all	of these except	
A Survival	B Reproduction	C Hiding	D Extinction
91. All of these hide in s	shaded areas to avoid h	not weather except	
A Agama lizard	B Caracal	C Arctic fox	D Fennec fox
92. If you stand a barefo	oot on snow, your feet	will get frozen after a	few
A Days	B Hours	C Minutes	D Weeks
93. Penguin's body have	e an insulating layer of		varm.
A Proteins	B Fats	C Sugar	D Water
94. Penguin's feet have	blood vessels that brin	g up from its	feet towards the body
A Cold water	B Warm water	C Cold blood	D Warm blood
95. The presence of thic	k white fur is an adapt	ation in the	
A Forest bear	B Fennec fox	C Penguin	D Polar bear
96. Bears that live in for			
A Whiter than	B Darker than	C Similar than	D Brighter than
	In scie	nce	
97 Is a property			
A Migration	B Mimicry	Camouflage	D Echolocation
98. Body of some lizard			
A Feathers	B Scales	C Fur	D Hair
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4 th Primary, October Revis	sion					
99. The color of fennec	fox protect it from					
A Cold weather	B Sun heat	C Rain	D Wind			
100. When panther chan	neleon stands on tree	's leaves, it color becor	nes			
A Brown	B White	C Green	D Blue			
101. The color seeds of k	apok tree is	•	_			
A White	B Green	C Yellow	D Red			
102. It is difficult for rain	forest plants to get					
A Water	B Wind	C Oxygen	D Sunlight			
103. The one animal tha	t can eat acacia tree le	eaves is the				
A Rat	B Caracal	C Penguin	D Giraffe			
104. Polar bear have wh	ite fur to blend in with	h				
A Sand	B Snow	C Trees	D Rocks			
105. Acacia tree and	Are umbrella-sh	naped trees.				
A Mangrove tree	B Water lily	C Barbary fig	D Kapok tree			
106 has a tria	angular shape and nee	edle leaves.	-			
A Water lily	B Palm tree	C Pine tree	D Mangrove tree			
107. All of these keep th	e animals away by sha	arp spines except				
A Acacia tree	B Barbary fig	C Pine trees	D Cactus			
108. In large intestine,	Is absorbed fro	m undigested food.				
A Water	B Fats	C Proteins	D Sugar			
109. All of these are from the digestive system organs except						
A Mouth	B Nose	Anus	D Stomach			
110 crushes fo	od inside the mouth.	0/11/1	-			
A Saliva	B Teeth	C Tongue	D Stomach			
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111. The allows	food to pass to the sn	nall intestine.	
A Esophagus	B Large intestine	C Stomach	D Throat
112. All of these exist in the	ne mouth except		
A Tongue	B Acid	C Saliva	D Teeth
113. The throat is connect	ted to the stomach thro	ough	
A Mouth	B Esophagus	C Trachea	D Pharynx
114. The complete digest	on of food occurs in th	ie	
A Stomach	B large intestine	C Small intestine	D Anus
115. The nutrients are ab	sorbed in the	And moves to the blo	ood.
A Large intestine	B Small intestine	c Stomach	D Esophagus
116. The solid wastes of ι	indigested food is expe	elled <mark>out</mark> side the body	
A Small intestine	B Large intestine	C Anus	D Lungs
117. Air passes from throa	at to		
A Nose	B Lungs	C Mouth	D Trachea
118. In lungs, alveoli are s	surrounded by		
A Air	B Water	C Blood vessels	D Small intestine
119. The oxygen gas mov	es from alveoli to bloo	d in the	
A Mouth	B Trachea	C Throat	D Lungs
120. Fish use To	breathe in water.		
A Gills	B Lungs	C Tails	D Skin
121. Amphibians live in	environment		
A Dry	B Moist	Arctic	D Sandy
122. All of these are chang	ges in the ecosystem b	y the human activity e	xcept
A Forest removal	B Wildfires	C Air pollution	D Water pollution
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13	X 3 B X 3 B X 3 B X 3 B X 3 B X 3 B X 3 B X 3 B X 3 B X 3 B X	5 5	8 4
ğ	4 th Primary, October Revision		Š
\$	123. If the number of an animal species becomes zero, it means that this species		¥.
3	A Is endangered B Can survive C Extinct D Is about to	extinct	FI
8	124. The nerves transfer information from and to the brain in the form of impu	ulcoc	8
3			1
Ц	A Light B Sound C Magnetic D Electrical		Л
8	125 Can gather the information from the surroundings.		X
×	A Sensory organs B Brain C Nerves D Spinal con	rd	₹
ヹ 月	126. Sensory receptors of the receive the smell of pizza.		灵
<u> </u>	A Mouth B Ears C Eyes D Nose		S S
×		-	×
<u>၁</u>	127. In the polar habitat, A Might be a prey for the polar bear.		5
	A Fennec fox B Caracal C Penguin D Cow		
8	128. The System is responsible for moving your hand a way from a hot obje	ct.	8
Ş	A Digestive B Nervous C Respiratory D Circulato	ry	Ş
		£.	<u>{</u>
8	Put (√) or (×) ?		X
5		/ \	\$
I	 Snake has special parts in its tail to sense the heat of prey's body. Diaphragm muscle belongs to the nervous system. 	()	[
ğ	3. Penguin has feathers and fat on its feet and toes.	()	ğ
3	4. Diaphragm relaxes and moves up in exhalation process. ()	4
II.	5. The sense of hearing dolphins is stronger than that of human. ()	月
<u>)</u>	6. Bat is a type of birds that use echolocation to locate its prey. ()	
8	7. Echolocation in bats is a behavioral adaptation. ()	8
2	8. Acacia tree lives in rainforest habitat.	()	Š
ß	9. Bat hunts at night by receiving echo waves bounced back from the prey's body. ()	E
8	10. Hopping of jerboa in zigzag way to escape from a viper is a structural adaptation.	()	8
7	11. Our brain processes what we see faster than what we hear.)	
<u>2</u>	12. Dogs have sharper senses of hearing and smell. ()	¥
	13. When you hear a fire alarm, your eyes send a signal to the brain. (()	
<u>X</u>	14. The jerboa's reaction time is very slow.15. Dolphins use echolocation only for finding food.	()	Š
5	© 0109-800-5315	11	E
ğ ,			y Z

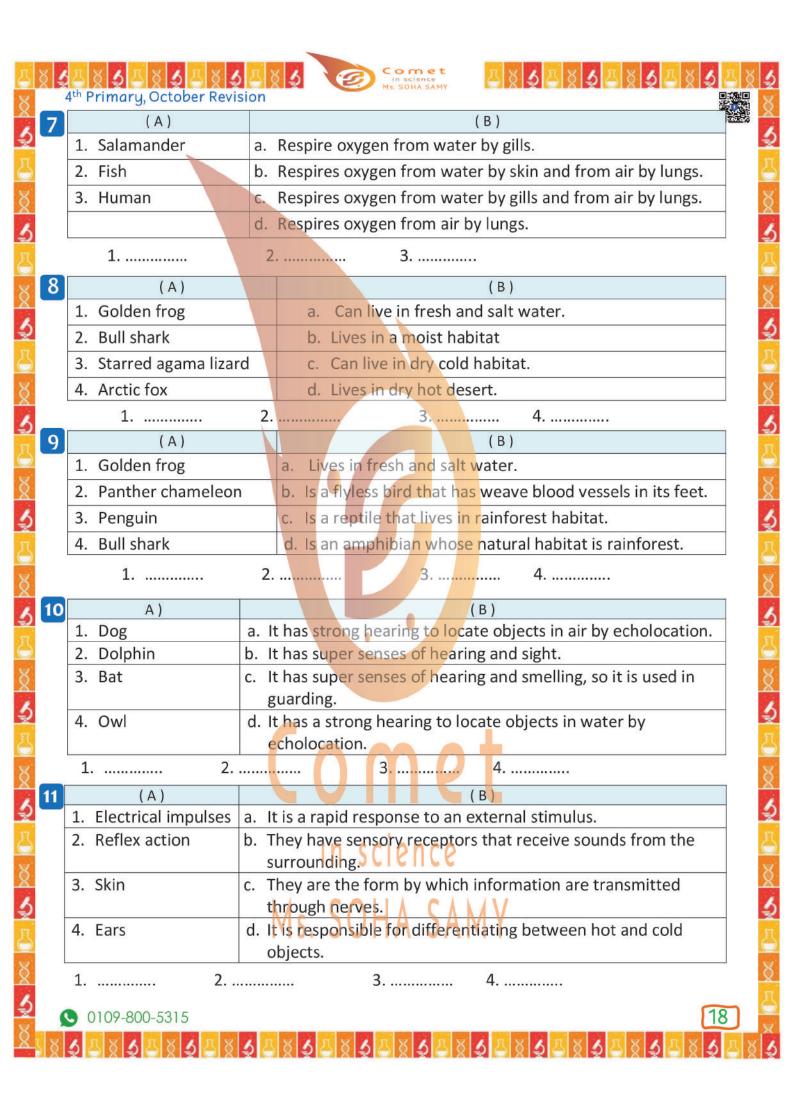
Į.	X 3 B X 3 B	8 3	J ×	\$
ğ	4 th Primary, October Revision	[2 1		ğ
5	16. Nerves are very important part of the digestive system.	()	\$
貝	17. Chameleon can see its prey and predator at the same time.	()	月
	18. Plowing grasslands is one of the natural changes in the ecosystem.	()	
8	19. Fish use gills to take carbon dioxide out of the water.	()	8
5	20. Golden frog is an extinct species.	()	\$
8	21. Reptiles like toads can inhale oxygen from water and air.	()	
8	22. Bull shark has a dark belly and white back to can't be seen by its prey.	()	8
<u> </u>	23. Mouth has a liquid substance called acid that softens food.	()	<u> </u>
<u> </u>	24. Both salamander and fish can breathe by lungs.	()	2
	25. The diaphragm moves upward during inhalation.	()	9
8	26. Fennec fox fur color blends with the snow.	()	ğ
3	27. Undigested food moves from the small intestine to the large intestine.	()	1
凡	28. Human can pollute the environment, but he can't restore it.	()	月
	29. Amphibians aren't sensitive to the environmental changes.	()	
Ř	30. Water pollution has a harmful impact on both humans and fish.	()	Ř
\$	31. When an ecosystem is completely polluted, no longer organisms can live in it.	()	\$
Д	32. The trunk of acacia tree stores fat, but camel's hump stores water.	()	Д
₩ ₩	33. Acacia tree has taproots, but kapok tree has buttress roots.	()	V
8	34. Water lilies have wide leaves to absorb sunlight in desert habitat.	()	8
5	35. Fennec fox has extra-large ears to keep them warm.	()	\$
	36. Bull shark can live in rivers and seas.	()	
8	37. Panting of the arctic fox is a behavioral adaptation.	()	8
1	38. Bull sharks hunts only at night time.	()	1
Q	39. The brown fur of the polar bear helps it to blind in with snow.	()	<u> </u>
	40. Palm trees have leaves like needles.	()	9
ğ	41. Some lizards have colored feathers to blend in with environment.	()	ğ
3	42. The polar bear can survive in the same habitat of the panther chameleon.	()	1
E F	43. When the snow melts in polar region, the fur of arctic fox turns into white.	()	17
\bigcirc	44. The ears of fennec fox are larger than that of arctic fox.	()	
ğ	45. Kapok tree has long roots to fix it in sandy soil.	()	ğ
5	46. Animals can't eat barbary fig due to its sharp spines.	()	5
凡	47. Thick roots of palm trees are behavioral adaptation. V	()	月
	48. Plants of dry desert are adapted to store water.	()	
8	49. All animals are similar in the shape and structure of their digestive system.	()	Q
ð	© 0109-800-5315	1	2	6
ğ,	ΙΖΧΙΖΧΙΖΧΙΙΧΙΙΚΟΙΚΟΙΚΟΙΚΟΙΚΟΙΚΟΙΚΟΙΚΟΙ	8 5	Д8	X

	Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q		5	5
8	4 th Primary, October Revision			Š
5 5	0. Juices of pancreas and liver are poured in the stomach.		()	\$
η 5	1. The digestive system ends with the anus.	()	Л
5	2. Carbon dioxide moves from lungs to trachea in inhalation process.		()	
8 5	3. The digestion process starts in the mouth.	()	8
5	4. The human body gets oxygen gas from the food.		()	\$
<u> </u>	5. During running the rate of breathing decreases.	()	1
8 5	6. Exposure to air rich in dust and exhausts harms the respiratory system.	()	8
5	7. Diaphragm muscle contracts during inhalation process.	(()	×
2 5	8. Both of small intestine and alveoli are surrounded by blood vessels.		()	- Ş
5	9. Absorption of nutrients occur in the large intestine.		()	<u></u>
g e	0. The chest cavity gets narrow in inhalation process.	()	8
7	1. In exhalation process, air rich in oxygen is expelled out the body.	ĺ	()	1
F 6	2. Gills are found in one side of fish's head.	()	FI
<u> </u>	3. Both lungs and gills take in carbon dioxide and release oxygen gas.		()	
Š 6	4. When ecosystem is polluted, only animals are affected.		()	×
5	55. Amphibians as toads can respire oxygen gas from air by their skins.		()	\$
25	66. Water pollution causes asth <mark>ma and problems of respir</mark> atory system.		()	Д
= 6	7. The slow change of the ecosystem is caused by human activity.		()	
2 6	8. Amphibians and arctic fox can't be found in the same habitat.	()	8
	9. Fish can only breathe in air.	()	\$
3	0. Panda and the golden frog are from the endangered species.	()	8
8				8
2	Write the scientific term			
0	1. The change over generations that helps living organisms to survive.	(,	Ž
	2. The change in the structure of living organism body.	(*	
8	3. The change in the behavior of the living organism.	(550	X
5	4. A type of adaptation by which the animal hides from its prey or predator			1
II.	5. A property in which the animal blend in with the surroundings to hide.	(F
	6. The type of camouflage in bull shark. SCIENCE	(,	
X	7. The property in which animal's back has darker color than its belly.	(10.500	ğ
\$	8. A feature in bull shark's body that helps it to sneak up on its prey.	(5
П	9. The type of insulating layer in penguin s skin.	(月
	10. They cover penguin's body.	(164	
8	11. A non-flying bird that has weave blood vessels in its feet.	()	Q
Ş	© 0109-800-5315		13	6
Ž į s	ΙΑΧΠΑΧΠΑΧΠΑΧΠΑΧΠΑΧΠΑΧΠΑΧΠΑ	XIXX	A II V	X

<u>.</u>	SASSASSASSASSASSASSASSASSASSASSASSASSAS	\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	\$
Š	4 th Primary, October Revision		Š
\$	12. The habitat of the penguin.	()	\$
凡	13. The fox that pants like dog.	()	凡
V	14. The fox that changes its fur's color by changing seasons.	()	
8	15. A type of cats that lives in hot desert.	()	8
5	16. The color of fur that covers most desert animals.	()	5
8	17. They cover the body of lizards.	()	8
8	18. The lizard that lives in hot desert.	()	8
X	19. The lizard that lives in rainforest habitat.	()	×
ð	20. An endangered species of amphibians.	()	ð
	21. Travelling of birds in winter from cold to warm places.	()	\Box
8	22. The bears that live in forests.	()	8
À	23. It covers the polar's bear body.	()	À
E I	24. A reptile that can move its eye in two opposite directions.	()	FI
	25. A bird that can rotate its head in all directions.	()	
X	26. A plant that grows in salt water.	()	X
5	27. A plant that grows in fresh water with wide leaves.	()	5
凡	28. An umbrella-shaped tree that lives in savanna forests.	()	凡
	29. An umbrella-shaped tree that lives in rainforests.	()	
8	30. The animal that can reach the leaves of acacia tree.	()	8
5	31. The tree that has buttress roots.	()	5
8	32. That tree that has taproots.	()	8
8	33. The tree that stores water in trunk.	()	8
X	34. The animal that stores fat in its hump.	()	×
<u> </u>	35. They found in acacia tree's leaves to keep animals away.	()	ð
<u></u>	36. The type of message sent by acacia tree to other trees.	()	8
8	37. A substance produced by acacia tree's leaves to be tasted bad.	()	ğ
\$	38. The tree that has hand-shaped leaves.	()	À
<u>\$</u>	39. The tree that has a triangular shape.	()	<u>\$</u>
	40. The tree that grows in polar habitat.	()	
ğ	41. The tree with short branches and needle leaves.	()	X
3	42. The system that breaks down food into nutrients to get energy.	()	5
П	43. The system that is responsible for human's breathing.	()	F
	44. The system that controls all the vital processes in our body.	()	
Š	45. The process of breaking down food into nutrients.	()	ğ
5	© 0109-800-5315	14	8
83	X 4	\$ \$ B \$ \$ B \$ \$ B \$	

Д }	SARSARSARSARSA GO COMET RESIDENCE RESIDENCE	8 A B B B B B B	1
8	4 th Primary, October Revision		8
×	46. The process of entering oxygen and expelling carbon dioxide outside the	e body. (×
<u>2</u>	47. The process in which oxygen gas enters the body.	()	Š
	48. The process in which carbon dioxide is expelled outside the body.	()	
ğ	49. The muscle that helps in the inhalation and exhalation.	()	X
3	50. They crush and chew food in mouth.	()	4
Д	51. The organ in which the digestion process starts.	()	Л
	52. The organ by which the digestive system ends.	()	
8	53. The organ by which solid wastes is expelled outside the body.	()	8
Ş	54. The liquid found in mouth.	()	Ş
3	55. It mixes food with saliva.	()	E
8	56. It softens food and change starch into sugar.	()	8
A	57. The first type of food that is digested in mouth.	()	×
<u></u>	58. A muscular tube that allows food to pass to stomach.	()	
$\stackrel{\hookrightarrow}{\bigcirc}$	59. The common organ between digestive and respiratory system.	()	
8	60. It changes food into a soupy liquid form.	()	X
5	61. The organ that starts from the end of the stomach.	()	4
Д Д	62. The longest part of the digestive system.	()	月
	63. The organ where the food is completely digested and turns to nutrients.	()	
Ř.	64. The organ where the nutrients is absorbed from the digested food.	()	Ř
5	65. The organ where water is absorbed from the undigested food.	()	\$
B	66. The organ where undigested food is stored.	()	E
8	67. It transports digested food from small intestine to all body parts.	()	X
X	68. The organ through which oxygen passes to the lungs.	()	×
ð	69. Two organs that look like balloons and lies behind ribs.	()	<u> </u>
	70. Air sacs found in lungs.	()	5
ğ	71. Air sacs that are responsible for gas exchange.	()	ğ
<u>,</u>	72. They surround the alveoli in lungs.	()	1
<u>z</u>	73. The air rich in oxygen gas.	()	<u> </u>
	74. The air rich in carbon dioxide.	()	
X	75. A fruit rich in vitamin C.	()	X
5	76. It branches like a tree inside lungs	()	1
Π	77. It lets exhaled air passes to trachea.	()	月
	78. Species live in moist environment and have two ways of respiration.	()	
8	79. They help fish to respire in water.	()	Q
Ş	© 0109-800-5315	15	6
8 7			X
			14

		Comet	
	4 th Primary, October Revision	In science Ms. SOHA SAMY	
<u>X</u>		•	
ð	80. A structure that helps frogs to breathe in		()
旦	81. A structure that helps salamander to bre		()
R	82. A pollution that causes asthma and dam		()
Χ.	83. A property used by bat and dolphin to lo	See The Control of th	()
5	84. The sound waves bounced back from a s	200	()
8	85. The waves produced by dolphin that tra	vels in water.	()
8	86. The super sensory organ in the dolphin.		()
A	87. They communicate with other by making	g sounds.	()
ð	88. A flying mammal that locates its prey by	echolocation.	()
	89. A reptile that senses the heat of its prey	's body.	()
8	90. A rodent that has large ears and long hir	nd legs.	()
À	91. An animal that has a bowled shaped face	e.	()
E)	92. An animal that uses echo waves to locat	e its prey in water.	()
Θ	93. The animal that becomes active at night		()
ğ	94. A bundle of nerves that pass through the	e backbone.	()
5	95. The main control center of the body.		()
Д	96. The organ that processes information ar	id make a p <mark>roper response</mark>	. ()
	97. They receive information (stimuli) from	the <mark>sur</mark> rou <mark>nding.</mark>	()
Ř	98. Nerves that found in the sensory organs		()
5	99. The form in which signals are transmitte	d from sense organs to bra	nin. () 🌠
囚	100. They transmit messages from the brain	n to all body and vice versa	. ()
×	101. They branch from the spinal cord and s	spread in all the body.	()
X	102. A rapid response made the body to a s	timulus to avoid danger.	()
ð	103. The time taken by the body to make a	response to a stimulus.	()
	104. A type of structural adaptation that he	lps jerboa to h <mark>e</mark> ar noise.	()
8	105. The organ used to differentiate between	en different food scents.	()
1	106. The sense by which you can identify th	e different sounds.	()
<u>₹</u>			
	Match from column (B) what su	ıi <mark>tşit in</mark> column (A)	
ğ	1 (A)	(B)	
3	1. Polar bear	a. Has dark thick fur	
I	2. Fennec fox VS	b. Has white thick fur	
	3. Brown bear	c. Has sandy-colored	fur
Š.	4. Desert lizard	d. Has colorful scales	
5	1 2	3 4	
8	O 0109-800-5315		16
Ă,	X 4 A X 4 A		8 4 4 8 4 4 8 4 8 4



	th Primary, October Revision	Ms. SOHA SAMY				
12	(A)	(B)	1200		
	1. Panther chameleon	a. Lives in forests and has	a. Lives in forests and has a dark fur.			
	2. Bull shark	b. Has weave blood vessels in its feet.				
	3. Brown bear	c. Lives in tropical forest and has V-shaped feet.				
	4. Penguin	4. Penguin d. Lives in fresh and salt water.				
	1 2	3	4			
Cross out the odd word						
 Owl – bat – snake – jerboa. 						
2.	Stomach – lung – trachea –	nose.				
3.	Salamander – frog – toad –	- chameleon.				
4.	Palm tree – mangrove – ba	rbary fig – cactus.				
5.	Kapok tree – chameleon –	agama lizard – golden frog.				
6. Fennec fox – arctic fox – polar bear – penguin.						
7. Agama lizard – chameleon – snake – owl.						
8. Wildfires – drought – cutting trees – climate change.						
9.	Caracal – fennec fox – char	neleon – agama liz <mark>ar</mark> d.				
10. Brain – spinal cord – nerves – heart.						
T	b. Brain - Spinar Cord - Herve	s – neart.				
	L. Owl – bat – jerboa – snake					
	L. Owl – bat – jerboa – snake					
	L. Owl – bat – jerboa – snake		Fennec fox			
	Compare between		Fennec fox			
	Compare between Point of comparison		Fennec fox			
	Compare between Point of comparison 1. Habitat		Fennec fox			
	Compare between Point of comparison Habitat Body coat		Fennec fox			
	Compare between Point of comparison 1. Habitat 2. Body coat 3. Ears		Fennec fox Exhalation process			
11	Compare between Point of comparison 1. Habitat 2. Body coat 3. Ears	Arctic fox				
11	Compare between Point of comparison 1. Habitat 2. Body coat 3. Ears Point of comparison	Arctic fox				
11	Compare between Point of comparison 1. Habitat 2. Body coat 3. Ears Point of comparison 1. Type of air	Arctic fox				
1	Compare between Point of comparison 1. Habitat 2. Body coat 3. Ears Point of comparison 1. Type of air 2. Diaphragm 3. Chest size	Arctic fox	Exhalation process			
11	Compare between Point of comparison 1. Habitat 2. Body coat 3. Ears Point of comparison 1. Type of air 2. Diaphragm 3. Chest size	Arctic fox				
1	Compare between Point of comparison 1. Habitat 2. Body coat 3. Ears Point of comparison 1. Type of air 2. Diaphragm 3. Chest size	Arctic fox Inhalation process	Exhalation process			
1	Compare between Point of comparison 1. Habitat 2. Body coat 3. Ears Point of comparison 1. Type of air 2. Diaphragm 3. Chest size Point of comparison	Arctic fox Inhalation process	Exhalation process			
1	Compare between Point of comparison 1. Habitat 2. Body coat 3. Ears Point of comparison 1. Type of air 2. Diaphragm 3. Chest size Point of comparison 1. Fur color	Arctic fox Inhalation process	Exhalation process			

ر ا	X 3 B X 3 B	@	Comet in science Ms. SOHA SAMY	7 × 5 7 × 5
	3,			

4	Point of comparison	Acacia tree	Kapok tree
	1. Habitat		
	2. Root		

Poi	nt of comparisor	Pine tree	Water lily
1. Ha	bitat		
2. Typ	e of leaves		

6	Point of comparison	Fish	Human Frogs
	1. Inhaled gas		
	2. Respire by		

7	Point of comparison		Brain		Nerves
	1. Function	1		 	

Give reason for

1. Blood vessels in penguin's feet are wrapped on each other.

To keep its feet warm.

2. Penguin's skin has a fatty layer and its body is covered with thick feathers. To stay warm.

3. Desert lizard hides in shaded area in hot sunny days.

To stay cool. Or to avoid hot weather.

4. Polar bear has a white fur, but brown bear has a dark fur.

To blend in with snow, brown bear to blend in with forest trees.

Fennec fox and caracal have a sandy-colored fur.

To blend in with sand or hide from its prey or predator

6. Polar bear has a thick fur.

To stay warm.

7. Bull shark has a dark back and a white belly.

To sneak up on its prey. (blend in with water)

8. Panther Chameleon has colored and shiny scales.

To hide from its prey or predator.

9. Panther Chameleon can inflate its body with air and open its mouth widely.

To scare its enemy.





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10. Panther Chameleon has a V-shaped foot and long tail.

To hold on tree branches.

11. Panther Chameleon's eyes can move independently at two opposite directions.

To search for prey and look out a predator.

12. Branches of acacia tree gather on the top of its trunk.

To prevent animals from eating its leaves.

13. Acacia tree and barbary fig have sharp spines.

To not be eaten by animals.

14. Water lily has wide leaves.

To absorb a big amount of sunlight.

15. Branches of pine tree don't get broken by falling snow.

Because they are short.

16. Pine tree has a triangle shape.

To let snow slide down and not be broken.

17. Acacia tree and kapok tree depend on wind.

To send messages.

18. Mangrove tree has long roots.

To resist water waves.

19. Saliva is very important.

Because it softens food and change starch into sugar.

20. You must not eat much fast food.

To keep digestive system healthy.

21. You must chew food well.

To keep digestive system healthy.

22. Golden frog is and endangered species.

Due to severe changes in rainforest habitat.

23. Dry habitat is not suitable for amphibians.

As they need water to respire.

24. Air and water pollution affect negatively on amphibians' survival.

As they need clean water and air to respire.

25. Exhausts of cars and factories affects negatively on human.

As they cause damage of lungs, asthma and heart diseases.

26. Rapid change is more dangerous than slow change on an ecosystem.

As there's no time for living organisms to adapt.

27. Fish can't breathe in air.

As they don't have lungs. Or they have gills that take in oxygen from water.



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What happens if

43. Sound waves produced from a dolphin hit an object in water.

Dolphin receives it and locate the prey.

44. The part in snake's face that senses heat is injured.

It can't hear its prey and can't find it in the dark.

45. Owls don't have a bowl-shaped face.

They can't hear its prey in the dark.

46. Your hand touches the spines of cactus. Or your hand touches a very hot object.

You withdraw your hand quickly as a reflex action.

47. You smell a burning food near you.

Your nose sends a message to the brain to check the smell.

48.A jerboa hears the movement of a nearby snake.

Ears send a signal to a brain then brain make its leg jump.

49. The sensory receptors in the eye stop sending messages to the brain.

We can't see.

50. Diaphragm muscle contracts and move down.

Oxygen gas enters the lungs. (inhalation process occurs)

51. Diaphragm muscle relaxes and moves upward.

Carbon dioxide is expelled outside the body. (Exhalation process occurs)

52. Ecosystem is rapidly changed.

Living organisms may move, disappear or die.

53. Increasing of car and factories exhausts In an ecosystem.

It causes air pollution, asthma and damage of lungs.

54. Pollution level increases in the habitat of amphibians.

They can't survive in it.

55. Number of amphibians' predators increases.

Number of amphibians decreases.

56. Frogs can only respire by lungs. Frogs skin gets dry.

They can't survive in water.

57. Small intestine is removed from the human body.

We can't get nutrients from food we eat.

58. Liver and pancreas don't pour their juices in the small intestine.

Food won't be digested.

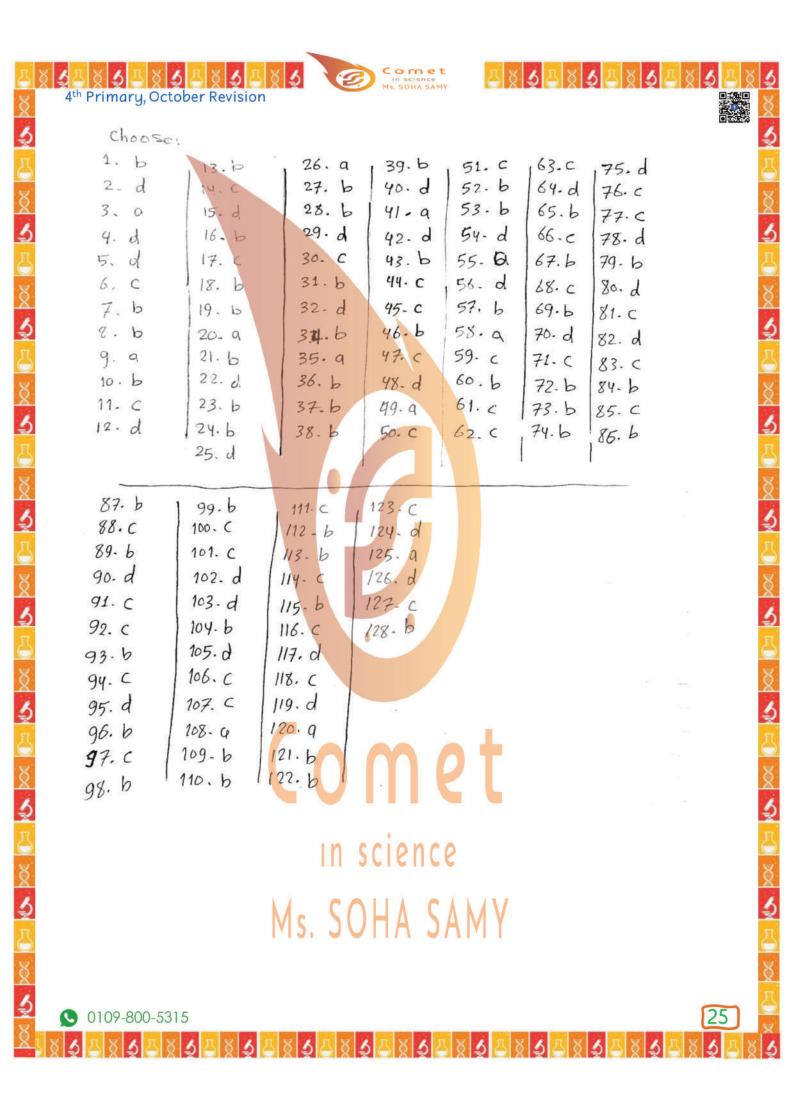
59. Absorption of nutrients to inter tiny blood vessels.



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الاختارات النفاقية

لشهــر أكتوبــر ۲۰۲۲

Mathematics - Science - English



Science

Test 1		Total man	rk -			
ICST		15				
Question 1		(5 mar	ks			
A Choose the correct answer :						
1 When snakes make noise, the sensory	y receptors found in jerboa's	send				
a warning message to the brain.						
(a) ears (b) nose	© feet	d teeth				
2 In the large intestine, is abso	orbed from the undigested foo	d.				
(a) starch (b) fat	© water	(d) oil				
3 fennec fox has a tan-colored coat that	t provides in its envi	ronment.				
(a) camouflage	(b) respiration					
© panting	d communication					
4 The nervous system of mammals con	nsists of					
(a) the brain only.	(b) the spinal cord only.					
© nerves and the spinal cord only.	d the brain, the spinal cord and nerves.					
B Give a reason for :						
The brain has an important function in the	he nervous system.					
	112					
Question 2		(5 mar	ks			
A Put (🗸) or (🗶):						
1 Arctic foxes and amphibians cannot f	found in the same habitat.	(
2 Reaction time should be as long as po	ossible so an animal can think	how				
to run away from a danger.		(
	ioxide gas inside the body and	1				
3 Both of lungs and gills take carbon d						
Both of lungs and gills take carbon direlease oxygen gas outside the body.	(0)	(
VO)	a Chilese	(

B What happens if?	
The polar bear has thin fur instead of its thick fur.	
Question 3	(5 marks)
A Cross out the odd word:	
1 Mouth – Lungs – Stomach – Large intestine.	()
2 Smell – Taste – Eyes – Hearing.	()
3 Penguin – Polar bear – Arctic fox – Fennec fox.	()

B Complete the following statements:

- 1 If you hurt your hand while cutting vegetables, the nerves in thesend a signal to the, therefore you feel the pain.
- 2 The structural adaptation of tree can resist water waves, while the structural adaptation of tree can resist strong wind.

Test 2		Total mark 15				
Question 1		(5 marks)				
A Choose the correct answer:						
1 Mangrove tree has long and strong roo	ots to					
(a) resist the strong wind.	(b) resist the water w	vaves.				
© prevent the loss of water.	d absorb the under	derground water.				
2 Gills differ from lungs in that the gills						
(a) take in oxygen gas.	(b) expel out carbon dioxide gas.					
© extract oxygen gas from water.	d extract oxygen gas from air.					
3 Animals that become active at night ar	e called					
(a) diurnal animals.	b nocturnal animals.d endangered animals.					
© extinct animals.						
4 To know if a cup of water is hot or col-	d, we need to use the sen	se of				
(a) sight. (b) hearing.	© smell.	d touch.				
B Give a reason for :						
Some desert lizards have colorful scales.						
Question 2		(5 marks)				
A Put (∨) or (X):	9					
1 Amphibians include frogs and salamar	()					
2 The habitat of the jerboa is similar to the second secon	()					
3 Sensory organs are responsible for pro		()				
4 The behavioral adaptation is a change	in the body structure of a	i nving				
organism to survive.		()				

B What happens if ...?

Bats lose the ability to hear by using echolocation property.

Question

(5 marks)

A Cross out the odd word:

- 1 Cactus plant Barbary fig Palm tree Mangrove tree.
- 2 Nose Throat Trachea Anus.

B Complete the following sentences:

- 1 When you taste an orange juice, the nerves in thesend a signal to the which determines that it is sour.
- 2 Starred agama lizard is a, while frog is an

4

Answers of Science

Answers of Test Question A 1 (a) 2 (C) 3 (a) 4 (d) B Because it is the main control center of the body. Question A 1 (/) 2 (X) 3 (X) 4 (/) B It cannot adapt with the very cold weather in polar regions. Question A 1 Lungs (all items belong to the digestive system, while lungs belong to the respiratory system). 2 Eyes (all items are senses, while eyes are sense organs). 3 Fennec fox (all items live in cold regions, while fennec fox lives in hot regions). B 1 hand - brain 2 mangrove – palm

Answers of Test Question 4 (d) A 1 (b) 2 (C) B To hide among the colorful rocks in the desert. Question A 1 (V) 2 (X) 3 (X) 4 (X) B They cannot hunt at night. Question A 1 Mangrove tree (all items live in desert habitat, while mangrove tree lives in salt water habitat). 2 Anus (all items belong to the respiratory system, while anus belongs to the digestive system). 3 Lungs (all items belong to the nervous system, while lungs belong to the respiratory system). B 1 tongue – brain 2 reptile – amphibian.

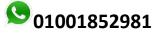


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Modle (1)

-choose the correct answer :-

1 The presence of a thick white fur is an adaptation in
a. starred agama. b. polar bear . c. fennec fox. d. forest bear.
2. All of the following sentences represent the meanings of adaptation except.
a. it is the characteristics that help living things survive.
b. it is the characteristics that help living things reproduce.
c. it is the changes that help the animal to find a prey.
d. it is the changes that causes the animal death.
3. In both human and owls, we find that the ability to see at night is
a. similar. b. different. c. greater in human than in owls.
d. better for human at night than during the day.
4. Animals that become active at night are called
a. diurnal animals. b. nocturnal animals.
C. extinct animals. d. endangered animals
5. To describe the delicious taste of a piece of chocolate, we should use the sense
of
a. sight b. smell. c. taste. d. touch.
What happens if ?
1. Humans have both gills and lungs.
2. The acacia leaves are not guarded by sharp spines.
3-Write the scientific term of each of the following:
1. A group of different animals that look for their preys at night. ()
2-A property related to the bouncing back of sound to the dolphin when the sound waves
hit objects under water. ()
3. A gas that is present in water and air, and supply amphibians with energy.().
4 The organ where saliva moistens the food. ()



Modle (2)

c. it can see them clearly at night. d. it can sense the heat of their warm bodies.

b. it can hear their heartbeats.

1. A snake has the ability to catch preys at night because ...

-choose the correct answer :-

a. it can smell them.

2. Both bats and mosquitoes become active during night. Which of the following
statements is correct ?
a. Both can swim well. b. Both can run fast. c. Bats prey on mosquitoes.
d. Mosquitoes prey on bats.
3 The five senses of humans include
a. sight, hearing, touch, smell, and movement.
b. sight, movement, taste, touch, and smell.
c. taste, touch, movement, hearing, and smell. d. sight, hearing, taste, smell, and touch.
4- To know if a cup of water is hot or cold, we need to use the sense of
a. sight. b. hearing. c. smell. d. touch.
5. Golden frog and polar bear,
a. both live in the same habitat. b. both can breathe in water.
c. both have the same body coat. d. both are living organism.
2- Put (√) or (x): •
1. The desert lizard blend in with large green trees, to hide from its enemies. ()
2. When the snow melts in polar regions, the thick fur coat of arctic foxes turns black.()
3. Sunlight transfers kapok tree's fluffy yellow seeds across the rainforest. ()
4 The spinal cord is the main control center of the body, which carries()
3- Give reasons for :- 1. Animals that live in hot regions become active at night.
2-Dogs are used in guarding.
3-Starred agama and golden frog are two different species.
Cars and factories exhaust increases in big cities.





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Grade 4 october revision

Modle (3)

1. Saliva in the mouth makes the food becomes soft and mushy with the help of

	1710410	_
-choose the correct answer :-		
-choose the correct answer i-		

a. teeth only. b. tongue only. c. teeth and esophagus. d. teeth and tongue.
10. The throat is connected to the stomach through
a. esophagus. b. trachea. C. small intestine. d. large intestine
2- One of the animals that may eat acacia leaves, is
a. rat. b. caracal. c. penguin. d. giraffe.
3- All the following properties protect acacia leaves from being eaten by animals except that
a. they are high enough. b. they are guarded by sharp spines.
c. they are brightly colored. d. they produce a poison.
4 The color of fur of fennec foxes protects them from
a. wind. b. rains. c. hot Sun. d. cold weather.
5- Fennec foxes have a tan-colored coat that provides in their environments.
a. camouflage b. respiration c. panting d. communication
2- Complete the following sentences
1. The penguin's body can keep warm air against its skin through an insulating layer of
and thick downy
2- Among the plants that can survive in habitats that have lackage of water are and
3- The wall of the absorbs the digested food into your bloodstream
4-In both human and fish, carry oxygen gas to all parts of the body.
-3- Give reasons for :-
1-The human body is made up of different systems.
2-Gills is a unique structural adaptations in fish.
3-The fennec fox has a tan-colored coat.
4-Branches of acacia tree are gather on the top of its trunk.
- Ending to the decision of the control of the cont



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-choose the correct answer :-

Modle (4)

3- Give reasons for :-			
d. neither structural nor behavioral			
a. only structural b. only behavioral c. both structural and behavioral			
5. Fennec foxes and arctic foxes live in burrows, this belongs to adaptation.			
a. starred agama. b. polar bear. c. fennec fox. d. forest bear.			
4- The presence of a thick white fur is an adaptation in			
d. can be seen easily by its predators.			
o. is hard to be seen among its surrounding. c. is easily to be seen by its preys.			
a. can be seen easily among its surrounding.			
3 Camouflage means that the animal			
a. mouth. b. nose . c. stomach. d. esophagus.			
2. All the following are organs in the digestive system except			
c. breathing and running. d. breathing and food processing.			
a. breathing only b. food processing only.			
obtained from			
1. The needed energy to perform different functions of a living organism is			

-3-	Giv	e r	eas	on:	s fo	r I
	y w	ЕΙ	Ea5	COLIE		J 66

1-Human has a digestive system.
2-Cars and factories exhaust cause breathing problems.
3-Golden frog is an endangered species.
4-The Egyptian mongoose make sounds.

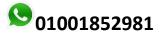
10 Look at the following photos, then choose the correct answer :





1. The sharpest senses that animal (1) has are ...

- a. touch and smell. b. smell and hearing. c. taste and sight. d. hearing and taste.
- 2. Animal (1) uses one or both senses in each of the following situations except
- a. identifying friends. b. identifying food. c. identifying strangers. d. tasting food.
- 3. The sharpest sense that animal (2) has is
- a. hearing. b. taste. c. touch. d. smell.
- 4. Animal (2) uses its super sense in each of the following situations except ...
- a. locating objects under water. b. avoiding danger. c. detecting smell of living organisms under water. d. locating preys under water.



Modle (5)

-choose the correct answer :-

1 Starred agama and	salamanders,
a. both are reptiles.	b. both are amphibians.
c. the first is reptile, w	hile the second is amphibian.
d. the first is amphibia	n, while the second is reptile.
2. The senses upon wh	nich you depend to hold a small radio playing at low volume
in a dark room are	•••
a. hearing and smell.	b. touch and taste.
C. smell and taste.	d. hearing and touch.
3 Which of the followi	ng senses we use during watching a film on the T.V? .
a. Sight and taste.	b. Sight and smell.
c. Hearing and touch.	d. Sight and hearing.
4 If amphibians have	gills not lungs and cannot respire through skin, then
a. they cannot live outs	side water. b. they can live outside water.
c. they cannot live und	erwater. d. they can live in desert landscape.
5 In the saliva n	noistens food and begins to break it down.

2- Look at the following two pictures, then answer the questions [by writing

habitat (A) or habitat (B)] :

1. Starred agama lizard and fennec fox live in.

a. mouth b. esophagus C. small intestine d. stomach.

- 2. We can find panther chameleon in
- 3. Amphibians cannot live in
- 4. Yellow body coats is most common in ...
- 5. Dry seasons is more dangerous for
- 6. Cutting down forest usually occurs in
- 7. The suitable ecosystem for barbary fig is
- 8. Caracals can live in
- 9. Arctic foxes cannot be found in
- 10. Kapok trees can grow in







Habitat (B)

Mr.Science

Grade 4 october revision

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Modle (6)

-choose the correct answer :-

- 1-. Fennec fox and caracal have...... that help them blend in with desert landscape.
- a. colorful scales
- b. thick white fur
- C. sandy-colored feathers d. sandy-colored fur
- 2. Acacia tree trunk and camel hump,
- a. both store water.
- b. both store fat.
- c. the first stores fat, and the second stores water.
- d. the first stores water, and the second stores fat.
- 3. Crushing the food in your mouth is a function of
- a. stomach. b. tongue. C. saliva. d. teeth.
- 4-. Starred agama and salamanders,
- a. both are reptiles. b. both are amphibians.
- c. the first is reptile, while the second is amphibian.
- d. the first is amphibian, while the second is reptile.
- 5- All the following are correct about the mouth except.
- a. it is the first organ in the digestive system.
- b. it has teeth.
- c. it has tonque.
- d. it moves food to the stomach directly.

In Winter In Summer

13 Study the following figure, then answer the questions :

- 1. What is the name of this animal and where this animal live?
- .2. Why the fur color of this animal changes between summer and winter seasons?
- 3. Mention one structural adaptation and one behavioral adaptation in this animal to adapt with the climate:
- Structural adaptation :
- Behavioral adaptation :

-3- Give reasons for :-

- 1-The starred agama lizard always looking for shade areas in desert.
- 2-Burrow is an excellent place for arctic and fennec foxes



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(Answers) Modle (1)

-choose the correct answer :-

- 1-. The presence of a thick white fur is an adaptation in
- a. starred agama. b. polar bear . c. fennec fox. d. forest bear.
- 2. All of the following sentences represent the meanings of adaptation except.
- a. it is the characteristics that help living things survive.
- b. it is the characteristics that help living things reproduce.
- c. it is the changes that help the animal to find a prey.
- d. it is the changes that causes the animal death.
- 3. In both human and owls, we find that the ability to see at night is.........
- a. similar. b. different. c. greater in human than in owls.
- d. better for human at night than during the day.
- 4. Animals that become active at night are called
- a. diurnal animals. b. nocturnal animals.
- C. extinct animals. d. endangered animals
- 5. To describe the delicious taste of a piece of chocolate, we should use the sense of
- a. sight b. smell. c. taste. d. touch.

What happens if ... ?

5. Humans have both gills and lungs.

Human can breathe in both air and water

6. The acacia leaves are not guarded by sharp spines.

Animals can eat it

3-Write the scientific term of each of the following:

- 1. A group of different animals that look for their preys at night. (Nocturnal Animals)
- 2-A property related to the bouncing back of sound to the dolphin when the sound waves hit objects under water. (echolocation)
- A gas that is present in water and air, and supply amphibians with energy.(oxygen).
- 8. . The organ where saliva moistens the food. (Mouth)



Modle (2)

-choose the correct answer :-

- 1. A snake has the ability to catch preys at night because ...
- a. it can smell them.

- b. it can hear their heartbeats.
- c. it can see them clearly at night. d. it can sense the heat of their warm bodies.
- 2. Both bats and mosquitoes become active during night. Which of the following statements is correct?
- a. Both can swim well.
- b. Both can run fast. c. Bats prey on mosquitoes.
- d. Mosquitoes prey on bats.
- 3-. The five senses of humans include
- a. sight, hearing, touch, smell, and movement.
- b. sight, movement, taste, touch, and smell.
- c. taste, touch, movement, hearing, and smell. d. sight, hearing, taste, smell, and touch.
- 4- To know if a cup of water is hot or cold, we need to use the sense of ...
- a. sight. b. hearing. c. smell. d. touch.
- 5. Golden frog and polar bear.....
- a. both live in the same habitat. b. both can breathe in water.
- c. both have the same body coat. d. both are living organism.

2- Put ($\sqrt{}$) or (x): •

- 1. The desert lizard blend in with large green trees, to hide from its enemies. x
- 2. When the snow melts in polar regions, the thick fur coat of arctic foxes turns black.($\sqrt{\ }$)
- 3. Sunlight transfers kapok tree's fluffy yellow seeds across the rainforest. ($\sqrt{\ }$)
- 4-. The spinal cord is the main control center of the body, which carries (\times)

3- Give reasons for :- 1. Animals that live in hot regions become active at night.

To avoid high temperature

2-Dogs are used in guarding.

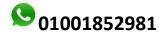
Because they can see in dark depends on the sense of sight

3-Starred agama and golden frog are two different species.

Bec. Agma lizard from reptiles while golden frog from amphibians

4-. Cars and factories exhaust increases in big cities.

Bec. Big cities are crowded with cars and factories





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Modle (3)

-choose the correct answer :-

- 1. Saliva in the mouth makes the food becomes soft and mushy with the help of....
- a. teeth only. b. tongue only. c. teeth and esophagus. d. teeth and tongue.
- 10. The throat is connected to the stomach through
- a. esophagus. b. trachea. C. small intestine. d. large intestine
- 2- One of the animals that may eat acacia leaves, is
- a. rat. b. caracal. c. penguin. d. giraffe.
- 3- All the following properties protect acacia leaves from being eaten by animals except that
- a. they are high enough. b. they are guarded by sharp spines.
- c. they are brightly colored. d. they produce a poison.
- 4-. The color of fur of fennec foxes protects them from....
- a. wind. b. rains. c. hot Sun. d. cold weather.
- 5- Fennec foxes have a tan-colored coat that provides in their environments.
- a. camouflage b. respiration c. panting d. communication

2- Complete the following sentences : •

- 1. The penguin's body can keep warm air against its skin through an insulating layer of fat and thick downy
- 2- Among the plants that can survive in habitats that have lackage of water are tiny leaves and long roots
- 3- The wall of the small intestine absorbs the digested food into your bloodstream through
- 4-In both human and fish, blood carry oxygen gas to all parts of the body.

-3- Give reasons for :-

1-The human body is made up of different systems.

Bec they work together to do all vital activities

2-Gills is a unique structural adaptations in fish.

Bec. Gills allow fish to take oxygen from water and release carbon dioxide

3-The fennec fox has a tan-colored coat.

To escape from its enemies

4-Branches of acacia tree are gather on the top of its trunk.

to not be eaten by most of animals and to store water



Modle (4)

-choose the correct answer :-

1. The needed energy to perform different functions of a living organism is obtained from

a. breathing only

b. food processing only.

c. breathing and running.

d. breathing and food processing.

2. All the following are organs in the digestive system except.........

a. mouth. b. nose . c. stomach. d. esophagus.

3-. Camouflage means that the animal

a. can be seen easily among its surrounding.

b. is hard to be seen among its surrounding. c. is easily to be seen by its preys.

d. can be seen easily by its predators.

4- The presence of a thick white fur is an adaptation in

a. starred agama. b. polar bear. c. fennec fox. d. forest bear.

5. Fennec foxes and arctic foxes live in burrows, this belongs to adaptation.

a. only structural

b. only behavioral

c. both structural and behavioral

d. neither structural nor behavioral

-3- Give reasons for :-

1-Human has digestive system

To break down food into smaller parts and the absorb it

2-Cars and factories exhaust cause breathing problems.

Bec. Air pollution makes the human hard to breath

3-Golden frog is an endangered species.

due to water and air pollution - destroying its natural habitat

4-The Egyptian mongoose make sounds.

To communicate with each other's

10 Look at the following photos, then choose the correct answer:

1. The sharpest senses that animal (1) has are ...

a. touch and smell. b. smell and hearing. c. taste and sight.

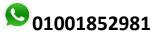




except

2. Animal (1) uses one or both of these senses in each of the following situations

- a. identifying friends. b. identifying food. c. identifying strangers. d. tasting food.
- 3. The sharpest sense that animal (2) has is
- a. hearing. b. taste. c. touch. d. smell.
- 4. Animal (2) uses its super sense in each of the following situations except ...a. locating objects under water.
- b. avoiding danger. c. detecting smell of living organisms under water. d. locating preys under water.



-choose the correct answer :-

- 1-. Starred agama and salamanders,
- a. both are reptiles. b. both are amphibians.
- c. the first is reptile, while the second is amphibian.
- d. the first is amphibian, while the second is reptile.
- 2. The senses upon which you depend to hold a small radio playing at low volume in a dark room are
- a. hearing and smell. b. touch and taste.
- C. smell and taste. d. hearing and touch.
- 3-. Which of the following senses we use during watching a film on the T.V?.
- a. Sight and taste. b. Sight and smell.
- c. Hearing and touch. d. Sight and hearing.
- 4-. If amphibians have gills not lungs and cannot respire through skin, then
- a. they cannot live outside water. b. they can live outside water.
- c. they cannot live underwater. d. they can live in desert landscape.
- 5-. In the, saliva moistens food and begins to break it down.
- a. mouth b. esophagus C. small intestine d. stomach.

2- Look at the following two pictures, then answer the questions [by writing

habitat (A) or habitat (B)] :

- 1. Starred agama lizard and fennec fox live in desert(A)
- 2. We can find panther chameleon in Tropical rainforest (b)
- 3. Amphibians cannot live in desert (a)
- 4. Yellow body coats is most common in desert(A)
- 5. Dry seasons is more dangerous for Tropical rainforest (B)
- 6. Cutting down forest usually occurs in (B)
- 7. The suitable ecosystem for barbary fig is (B)
- 8. Caracals can live in (A)
- 9. Arctic foxes cannot be found in (A&B)
- 10. Kapok trees can grow in (B)





Habitat (A) Habitat (B)

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-choose the correct answer :-

- 1-. Fennec fox and caracal have...... that help them blend in with desert landscape.
- a. colorful scales
- b. thick white fur
- C. sandy-colored feathers
- d. sandy-colored fur
- 2. Acacia tree trunk and camel hump,
- a. both store water.
- b. both store fat.
- c. the first stores fat, and the second stores water.
- d. the first stores water, and the second stores fat.
- 3. Crushing the food in your mouth is a function of
- a. stomach. b. tongue. C. saliva. d. teeth.
- 4-. Starred agama and salamanders,
- a. both are reptiles. b. both are amphibians.
- c. the first is reptile, while the second is amphibian.
- d. the first is amphibian, while the second is reptile.
- 5- All the following are correct about the mouth except.
- a. it is the first organ in the digestive system.
- b. it has teeth.
- c. it has tonque.
- d. it moves food to the stomach directly.

In Winter In Summer

13 Study the following figure, then answer the questions :

2. What is the name of this animal and where this animal live?

Arctic fox live in tundra desert

.2. Why the fur color of this animal changes between summer and winter seasons?

To help it sneaks up preys any time

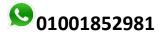
- 3. Mention one structural adaptation and one behavioral adaptation in this animal to adapt with the climate:
- Structural adaptation: it has short ears and legs to help it to stay warm
- Behavioral adaptation : live in burrows to stay warm eat different kinds of food

-3- Give reasons for :-

1-The starred agama lizard always looking for shade areas in desert.

To stay away from the hotness of sun

2-Burrow is an excellent place for arctic and fennec foxe .to stay warm at night





Cncept 1

1: Choose:

1- One of the behavioral adaptations that help the animal protect itself from enemies

(Camouflage - extinction - immigration - reproduction)

1- من التكيفات السلوكية التي تساعد الحيوان على حماية نفسه من الأعداء (التخفي - الانقراض - الهجرة- التكاثر)

2-Bat is.....animal. (nocturnal-morning-Harmful - don't fly)

2 - الخفافيش حيوانات (ليلية صباحية - ضارة - لا تطير)

3-..... is covering body arctic fox (heavy hair - heavy skin - thick fur - many feathers)

3 -يغطى جسم الثعلب القطبي (وبر كثيف- جلد ثقيل - فراء كثيف - ريش كثير)

4-The roots of palm plants help them to (Stand strong against the wind

- reach the underground water - Fixation of plants in the soil -all the above) (الصمود أمام الرياح - الوصول إلى المياه الجوفية- تثبيت النباتات في التربة - جميع ما سبق (الصمود أمام الرياح - الوصول إلى المياه الجوفية- تثبيت النباتات في التربة - جميع ما سبق

5 -.....panting to lower her body temperature.

(Whales - Lions -Foxes - Bats)

5- تلهث لخفض درجة حرارة أجسامها. (الحيتان - الأسود - الثعالب- الخفافيش)

6- Adaptation processes include changes that in the environment.

- (a) reduce the chances of survival
- (b) reduce the life span of individuals
- (c) improve the survival of the species
- (d) reduce the reproduction process

6- تشمل عمليات التكيف التغييرات التي في البيئة . (تقلل فرص البقاء على قيد الحياة - تقلل العمر الافتراضي للأفراد - تحسن بقاء الأنواع - تقلل عملية التكاثر)

- 7- What is a adaptation?
- (A) The process by which new species appear.
- (b) A property possessed by living things to help them survive.
- (C) A form of pollination for trees.
- (D) A process of getting rid of harmful substances in living things.

7- ما هو التكيف؟ .. (عملية تظهر بها أنواع جديدة - خاصية تمتلكها الكائنات الحية لمساعدتها على البقاء- شكل من أشكال التلقيح للأشجار - عملية تتخلص بها الكائنات الحية من المواد الضارة)

2

8- What happens to organisms that cannot adapt to the conditions of their environment?



- (a) their number increases
- (b) they cannot survive in the environment
- (c) their number remains constant
- (d) they can persist in the environment

```
8- ماذا يحدث للكائنات الحية التي لا يمكنها التكيف مع ظروف بيئتها (يزداد عددها - لا يمكنها العيش في البيئة - يبقي عددها ثابت -يمكنها الاستمرار في البيئة )
```

9- Animals that live in a hot environment have ears to help her, and allow heat to escape to be cool.

(small - short - long - sharp)

```
9- الحيوانات التي تعيش في بيئة حارة آذانها ...... لتساعدها على التخلص من حرارة جسمها الزائدة. (صغيرة - قصيرة- حادة- طويلة)
```

10- Fish extracts oxygen out of the water by (skin -gills - lungs - fins)

```
10- تستخرج الأسماك الأكسجين من الماء عن طريق ......(جلد - خياشيم - رئتان - زعانف)
```

11- Stomach is a part of the digestive system that....... (chewing food- converts solid food into liquid - absorbs nutrients from food - delivers food into the esophagus)

```
المعدة جزء من الجهاز الهضمي ....... (مضغ الطعام- يحول الطعام الصلب إلى سائل- يمتص العناصر الغذائية من الطعام - يوصل الطعام إلى المريء) 12-Which of these examples of hiding or a camouflage
```

(camel broad feet – camel hump – power parrot wings – the fox is golden like its environment)

```
12- أي من هذه الأمثلة على الاختباء أو التمويه (الجمل عريضه قدم - سنام الجمل - باور ببغاء اجنحة - الثعلب ذهبي مثل بيئته
```

13- Eagle is bird of prey (who eats meat). Its beak is strong and sharp.

This structural adaptation helps it to

(see - ripping meat- find a shelter- escape)

```
13 - النسر من الطيور الجارحة. ومنقارها قوي وحاد. هذا التكيف الهيكلي يساعدها على ........(النظر - تمزيق اللحم- ابحث عن ملجأ- هروب)
```

2- Put (V) or (x) or the following statements:



zei	CIENCE منتري العلوم
1- Foxes have a strong sense of hearing. () عاسة سمعية قوية. 2- The respiratory system is responsible for the entry of air into the I	
ئول عن دخول الهواء إلى الجسم. ()	
3- Exhaled air is loaded with oxygen()	ر- الجهار التنفسي مس
بالأكسجين ()	3- هواء الزفير محمل
4- When running and making an effort, the number of breathing time decreases ()	
. يقل عدد مرات التنفس ()	 عند الجري والجهد
5- Acacia trees grow in the Amazon forest. ()	
يا في غابات الأمازون. (_)	﴾- تنمو أشجار الأكاس
6- The feet of the penguin do not freeze because they have a layer	of fat. ()
ريق لأنها تحتوي على طبقة دهنية. () 7- The fur that some animals possess to protect them from the cold behavioral adaptation. () (x) المتلكه بعض الحيوانات لحمايتها من البرد هو تكيف سلوكي. (x)	is a
8- Man cannot restore the ecosystem with any way ()	
متعادة النظام البيئي بأي شكل من الأشكال ()	}- لا يمكن للإنسان اس
9- The migration of birds to search for food is considered a form of badaptation (
للبحث عن غذائها شكلاً من أشكال التكيف السلوكي ()	:-تعتبر هجرة الطيور
10- Some animals that live in cold have a long ears; To help it to mabody temperature ()	aintain the
وانات التي تعيش في المناطق الباردة آذانا طويلة؛ لتساعدها على الحفاظ على حرارة جسمها ()	
11- Plants need long roots that extend deep into the soil to survive in	n the water

11- تحتاج النباتات إلى جذور طويلة ممتدة في أعماق التربة للبقاء في البيئة نادرة المياه. ()

12- Animals digging trenches is a form of structural adaptation ()

12- حفر الحيوانات للخنادق شكل من أشكال التكيف التركيبي. () () 13- Food turns from complex to simple during digestion ()

13- يتحول الطعام من صورته المعقدة إلى البسيطة أثناء عملية الهضم ()

4

scarce(

3-Mach

Column (A)	Column (B)
1-is a common organ in the digestive and respiratory system.2-a gas necessary for respiration.3-the process of pushing air in and out of the body.	a- Carbon dioxide
4-a muscle that has an important role in the breathing process. 5-ls a gas produced by respiration	b- respiration of
o is a gas produced by respiration	c- diaphragm
	d- throat(pharynx)
	e- oxygen

Column (A)	Column (B)
1-sight	a-it does not absorb food.
2-camouflage	b-a type of adaptation that helps an animal to hide.
3-esophagus	c-ants use it to sense and communicate smells
4- diaphragm	d-it helps us see
5-smell	e- a muscle that plays an important role in
	breathing



Column (A)	Column (B)
1-nerves	a- bronchioles
2-branches inside the lung that resemble tree branches	b- carry messages to the brain via the spinal cord
3-behavioral adaptation	c- The kapok tree emits beautiful scents to attract bats
4-vibrating motion	d- Structural adaptation of some animals to see
5- membraned like mirror	better at night.
	e- A way to communicate between some animals



4-Complete:

1- The fat layer under the animal's skin to warm it is anadaptation (Structural - behavioral)

1- وجود الدهون تحت جلد الحيوان لتدفئته يعتبر تكيف. (تركيبي. سلوكي)

2-It causes many problems for the lungs(Breathing - pollution)

2- يسبب مشاكل كثيرة للرئتين (التنفس - التلوث).

3- Fish breathe gas which dissolved in water (Oxygen - carbon dioxide)

3- تتنفس الأسماك غازات مذابة في الماء (أكسجين - ثاني أكسيد الكربون)

4- mix and grind food inside the mouth

(Teeth only - Teeth and tongue)

4- يخلط ويطحن الطعام داخل الفم(الأسنان فقط - الأسنان واللسان)

5- Mangroves trees grow in.....(Fresh water - salt water)

5- تنمو أشجار المانجروف في (مياه عذبة - مياه مالحة)

6- During exhalation,..... gas comes out of the lung.

(Oxygen - Carbon dioxide)

6- أثناء الزفير ، يخرج الغاز من الرئة (أكسجين - ثاني أكسيد الكربون)

7- The lungs are one of the important organs in thesystem. (Respiratory -

Digestive)

7- الرئتان من الأعضاء المهمة في نظام (الجهاز التنفسي - الهضمي)

8- The diaphragm rises up during theoperation

(Inhalation - Exhalation)

8- يرتفع الحجاب الحاجز خلال عملية(الشهيق - الزفير)

١



9- The cactus plant has spines that protect it from being eaten by desert animals, and this is considered a form of(Behavioral Adaptation -Structural Adaptation)

9- نبات الصبار له أشواك تحميه من أكل حيوانات الصحراء ، وهذا يعتبر شكلاً من أشكال ... (التكيف السلوكي - التكيف الهيكلي) 10- A tube with muscles that help push food into the stomach, called........ (Trachea - Esophagus)

10- أنبوب به عضلات تساعد على دفع الطعام إلى المعدة ، يسمى (القصبة الهوائية - المريء)

5-Answer the following:

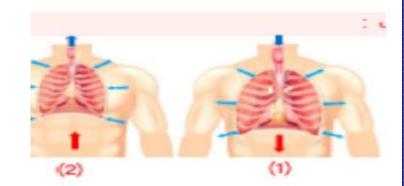
1-Butterflies that have a color like the color of the tree they live on are called this phenomenon (Camouflage)

1- الفراشات التي لها لون مثل لون الشجرة التي تعيش عليها تسمى هذه الظاهرة (التمويه)

2- Rabbits have long and strong hind legs that help them to jump quickly and escape when danger determine the type of adaptation(Structural adaptation)

2- للأرانب أرجل خلفية طويلة وقوية تساعدها على القفز السريع والهروب عند الخطر يحدد نوع التكيف (التكيف التركيبي)

- 3 Note the following two figures. Identify the name of each of the two processes in Figures 1, 2: -
 - 1- inhalation process
- 2- exhalation process What happens to the diaphragm in Figure (1).
- 2- Diaphragm move down
- 4-The system that digests food to produce energy is digestive system



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4- الجهاز الذي يهضم الطعام لإنتاج الطاقة هو الجهاز الهضمي

5- Bats cannot see in the dark, but they hunt their prey at night because of echolocation

5- لا تستطيع الخفافيش الرؤية في الظلام ، لكنها تصطاد فريستها في الليل بسبب تحديد الموقع بالصدي

6-Chameleons can move each of their eyes in a different direction, this adaptation helps them

in catch prey - find food



6- يمكن للحرباء تحريك عيونهم في اتجاه مختلف ، وهذا التكيف يساعدهم في اصطياد الفريسة - العثور على الطعام 7- some dogs live in a cold environment, while some live in a hot environment.

In your opinion, which one has thick fur, the cold environment or the hot environment? And why?(cold environment - to warm it)

7- تعيش بعض الكلاب في بيئة باردة بينما يعيش البعض الآخر في بيئة حارة. برأيك أيهما لديه فرو كثيف ، البيئة الباردة أم البيئة الحارة؟ ولماذا؟

(البيئة الباردة - لتدفئتها)

8- Leaves of plants that float above the surface of the water are so wide that they can absorb sunlight

8- أوراق النباتات التي تطفو فوق سطح الماء واسعة جدًا بحيث يمكنها امتصاص أشعة الشمس

9- Animals that have a thick layer of fat under the skin are animals that live in a cold environment

9- الحيوانات التي تحتوي على طبقة سميكة من الدهون تحت الجلد هي حيوانات تعيش في بيئة باردة

أسئلة المحافظات للعام الماضى 2021



1	Cho	ose the	e corre	ct answer:
_	CIIO	JJC till		ct alisveci.

1is cove	ring the body of	the Arctic fox.		
a. Heavy hair	b. Heavy skin	c. Thick fur	d. Many feathers	
2ar	e panting to low	er their body tem	perature.	
a. Wholes	b. Cats	c. Foxes	d. Bats	
3- One of the behavioral adaptations that helps the animal protects itself from enemies is				
a- camouflage	b. extinction	c. immigration	d. reproduction	
3- Adaptation incenvironment.	cludes changes	that	in the	
a. reduce the chance of survival				
b. reduce life span for individuals				
c. improve species survival				
d. reduce reproduction process				
4- The esophagus is a part of the digestive system that acts to				
a. chew the food				
b. absorbs nutrients from the food				
c. transfer food from mouth to stomach				
d. transfer air to	the lungs			
5. Fish extracts of	xygen out of wa	ater by		
a. skin	b. gills	c. Lungs	d. fins	

2-Complete:



1-The fatty layer under the animal's skin to warm it is considered aadaptation
(structural -behavioral)
2-mix and crush food inside the mouth (Teeth only-Teeth and tongue)
3. Fish breathe in gas which is dissolved in water
(oxygen - carbon dioxide)
4destroys the lungs and causes many diseases.
(Breathing - Pollution)
Put a sign (√) or a sign (x) or the following statements:
1-The feet of the penguin don't freeze because they have an insulating fat layer.()
2-The thick fur that some animals possess to protect them from the cold is considers a behavioral adaptation. ()
3- Penguins forming alarge groups in a structural adaptation. ()
4- Plants have two types of adaptation (structural and behavioral) . ()
5- Sending bad smells by Acacia tree is a behavioral adaptation . ()
6- Food turns from complex form to simple during the digestion process .()
7- The food passes through the Large intestine before it goes to the small intestine. ()
8- The respiratory system responsible for the entry of air into the body. ()
9- During exhalation the diaphragm moves upward and relaxes. ()
10- A pharynx is a common cavity between the digestive and the respiratory system. ()
11- Carbon dioxide is important for the respiration of animals. ()

Answer:



- 1-Buttertlies that have the same color of the tree they live on. This is called camouflage
- 2- Some plants have thorns to defend themselves against enemies. -What is the type of adaptation? a structural adaptation.

Concept2

1- Choose:

1- The ability to turn the head in all directions............ (Snakes- jerboa - dolphins -owl)

1- القدرة على لف الرأس في جميع الاتجاهات تتميز بها (الثعابين - اليربوع - الدلافين - البومة)

2- All of the following are components of the nervous system except(Spinal cord - heart -nerves -brain)

2 - كل ما يلي يعتبر من مكونات الجهاز العصبي ماعدا (الحبل الشوكي - القلب - الأعصاب - الدماغ)

- 3- When you put your hand on a hot surface, the brain sends a message to the muscles, your action is
- (a) Keep placing your hand
- (b) You feel pain
- (c) You will do nothing
- (d) pull your hand away from a hot object

3- عند وضع يدك على سطح ساخن، يرسل المخ رسالة الى العضلات والفعل الذي يصدر منك بعدها مباشرة هو . (أ) تستمر في وضع يدك (ب) تسحب يدك بعيدا عن جسم ساخن (ج) لن يصدر منك اي فعل (د) تشعر

4- عندما تحدد مذاق حلو أو مر، فإنك قد قمت باستخدام (اللسان - العين - الأذن -الأنف)

5- The sense you use to identify the scent of a perfume.

(taste -sight- smell-hearing)

5- الحاسه التي تستخدمها للتعرف على رائحة العطر (التذوق- البصر – الشم – السمع)

6- Your sensation of hot weather depends on sensory receptors in the (eyes - skin - nose – ears)

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6- إحساسك بالطقس الحار يعتمد على المستقبلات الحسية في (العيون - الجلد - الأنف - الأذنين)

7- Sameh drives his bike, and during that he heard a car behind him and moved away so as not to collide with it, the device that received

A sign that made Sameh realize that is

- (a) the nervous system
- (b) the respiratory system
- (c) the digestive system
- (d) the circulatory system

```
7- يقود سامح دراجته وأثناء ذلك سمع سيارة خلفه فابتعد حتى لا يصطدم
 بها، الجهاز الذي استقبل اشارة جعلت سامح يدرك ذلك هو
  (الجهاز العصبي- الجهاز التنفسي- الجهاز الهضمي -الجهاز الدوري)
```

8 - what carries the message from your eyes to your brain when you see something...

(nerves - muscle - veins - glands)

8 - ما الذي يحمل الرسالة من عينيك إلى دماغك عندما ترى شيئًا ... (أعصاب - عضلات - أوردة - غدد)

9-Thesystem helping us to translate messages that come from our surroundings, such as smells and sounds.

(respiratory - digestive - nervous - circulatory)

9 -يساعدنا نظام على ترجمة الرسائل التي تأتي من محيطنا مثل الروائح والأصوات (الجهاز التنفسي - الهضمي - العصبي - الدوراني)

2- Put (v) or (x) or the following statements:

1-The ear is the sense organ responsible for seeing objects()

1- الأذن هي العضو الحسى المسئول عن رؤية الأشياء ()

2- The brain responsible for processing information ()

2- الدماغ المسؤول عن معالجة المعلومات ()

3- Bats use their sense of smell to avoid dangers. (

7- تستخدم الخفافيش حاسة الشم لتجنب الأخطار. ()

4- Dolphins have a strong sense of sight ()

4- تتمتع الدلافين بإحساس قوى بالرؤية ()

13

5-Snakes have the ability to rotate their heads in all directions(



5- الأفاعي لها القدرة على تدوير رؤوسها في كل الاتجاهات ().

6- A person can identify food which is not good through the sense of hearing. ()

6- يمكن للإنسان أن يتعرف على الطعام غير الجيد من خلال حاسة السمع. ()

7- Bees can know the sweet taste by their sense of smell ()

يستطيع النحل التمييز بين الطعم الحلو والمر عن طريق حاسة الشم(x)

8- The nervous system works separately from the five senses. ()

8- يعمل الجهاز العصبي بشكل منفصل عن الحواس الخمس ()

9- Seeing with our eyes is a way to help us gather information about the environment around us. ()

9- الرؤية بأعيننا وسيلة تساعدنا في جمع معلومات عن البيئة المحيطة بنا()

10- The skin is the sensory organ that makes you feel the smooth of the cloth ()

10- الجلد هو العضو الحسي الذي يجعلك تشعر بنعومة القماش ()

11- Plants have two types of adaptation (structural and behavioral) ()

11- العيون من الأعضاء الحسية التي تجعلك تشعر بمرارة الليمون ()



Column (A)	Column (B)
1-It is similar in its processing of information to computer.	a- The spinal cord
2-when a foreign object is brought into your eyes	b- Using the sense of sight
3-when an object falls from your hands.	c- The brain
4-the transmission of commands to the muscles to	d- The reflex action occurs
contract	

1) Column (A)	Column (B)
1-light	a-it depends on the body's sense of heat
	for predation
2-owl	b-it depends on the echo of the sound in
	locating the prey.
3-the snake	c-An animal with a bowl- like face and
	strong sences of hearing and vision.
4-the bat	d-it is the visible form of energy that is
	transmitted in the form of waves.
5-mirror- like membrane	e-A structural adaptation in the eye that
	provides some animals with better vision
	at night.
	f- A sense that helps us hear birds



Complete:

1- The time taken for the body to receive information from the environment.....(Reflex action - Response time)

1- الوقت الذي يستغرقه الجسم لتلقى المعلومات من البيئة (رد الفعل المنعكس - زمن الاستجابة)

2- An animal that can escape from enemies because of the length of its hind leg. (Arctic fox - jerboa)

) 2- حيوان يستطيع الهروب من الأعداء بسبب طول رجله الخلفية (الثعلب القطبي - اليربوع

3- The eye sends messages to through the nerves (Brain - spinal cord)

3-ترسل العين رسائل إلى عن طريق الأعصاب (المخ الحبل الشوكي)

4- The dolphin can locate its prey through its sense......(hearing - sight)

4- يستطيع الدلفين تحديد موقع فريسته من خلال حاسته (السمع - البصر)

5- The echo sound feature depends on (Hearing sense - Sight sense)

5- تعتمد خاصية صدى الصوت على (حاسة السمع - حاسة البصر)

6- The skin is an important organ of the system...

(Respiratory - Nervous)

6- الجلد عضو مهم في الجهاز ... (الجهاز التنفسي - العصبي)

7- The spinal cord is an important organ of thesystem (Nervous - Digestive)

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7- النخاع الشوكي عضو مهم في جهاز (عصبي - هضمي)

8- Sensory organs such as the nose and ear receive information from the surrounding environment and convert it to (Nutrients - Nerve signals)

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8- الأعضاء الحسية مثل الأنف والأذن تستقبل المعلومات من البيئة المحيطة وتحولها إلى ..... (العناصر الغذائية - الإشارات العصبية)
```

9- In order for the human being to remain alive, there is an integration between the senses and thesystem to interact with the surrounding environment.

(Respiratory - Nervous)

9- من أجل بقاء الإنسان على قيد الحياة ، هناك تكامل بين الحواس ونظام للتفاعل مع البيئة المحيطة. (الجهاز التنفسي - العصبي)

The fifth question: Answer the following:

- 1- A dolphin can locate living organisms and things under the surface of the water and explain the feature that helps the dolphin to do (echolocation)
- 1- يستطيع الدلفين تحديد موقع الكائنات الحية والأشياء تحت سطح الماء وشرح الميزة التي تساعد الدلفين على القيام به 2- There are some nocturnal animals that depend on their sense of heat to get their prey (snake)
 - 2- هناك بعض الحيوانات الليلية التي تعتمد على إحساسها بالحرارة للحصول على فريستها (الثعبان).
- 8- Snakes depend on identifying their prey and catching them at night by sensing heat. Determine the reason (as it is not seen at night)
 - 8- تعتمد الثعابين على تحديد فرائسها واصطيادها ليلاً باستشعار الحرارة. حدد السبب

1-The organ which is responsible for smelling sense



أسئلة المحافظات للعام الماضى 2021

1-Choose:

a-ear	b-tongue	c-nose	d eye	
2-To communicate through the sense of sight we nee				
a- making sound		b. availability of lig	ht	
c. hearing music		d. touching someth	ning	
3-Bats are	anima	ls.		
a. nocturnal	b. morning	c. not hearing	d. not flying	
4-The animal that has the ability to turn its head in all direction is a/an				
a. snake	b. jerboa	c. dolphin	d. owl	
5. All the following components are from the nervous system except				
a. spinal cord	b. heart	c. nerves	d. brain	
6-Thei	s the main contr	ol center in your bo	dy.	
a. nerve	b. brain	c. spinal cord	d. sense	
7-The system helps us translate messages that come from our surroundings such as smells and sounds.				
a. respiratory	b. digestive	c. nervous	d circulatory	
8- When can object comes suddenly close to your eyes occurs				
a.refix action	b. respiration	n c. sensory or	gan d. sleeping	

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1-In order for human to remain, there must be an integration between the senses and the System to interact with the surrounding environment. (respiratory-nervous)

2-The eyes send messages to the..... through the nerves. (brain - spinal cord)

3- Sensory receptors send............ (a massage from the brain to the muscles-a message from the sensory organs to the brain)

4- The time that the body takes to receive information from the environment and (reaction time-reflex action)

3-Put (v) or (x) or the following statements:

1-The age is the sensory organ thot makes you feel the smoothness of cloth. ()

2- Foxes hove o strong hearing sense. ()

3- Bats use their sense of smell to avoid danger. ()

4- Dolphins have a strong sight sense. ()

5- A person can identify spoiled food through the touch sense. ()

6- Echo helps dolphins locate their preys. ()

7- Snakes have the ability to rotate their heads in all directions. ()

8- The brain is responsible for processing information. ()

9- The nervous system plays a role in breathing . ()



Grade 4

4-Answer the following questions:

A) There are some nocturnal animals that depend on sensing heat to get their prey

Explain with example.

- (A) Snakes have specialized body parts in their face that allow them detect the heat of the warm blooded preys at night.
- B) Dolphins can Locate organisms and things under the surface of water.

Explain the feature that helps dolphins to do so.

- (B) They depend on echolocation .
- (c) Rabbits have strong and long hind legs that help them jump quickly and escape in

dangerous times. Determine the type of adaptation.

c) Structural adaptation

Concept 3



1- Choose:

1-The organ responsible for the sense of sight (the ear - the tongue - the nose - the eye)

2- العضو المسئول عن حاسة البصر (الأذن- اللسان- الأنف- العين)

2-energy affects on sensory receptors in the eye, causing a vision. (Sound - Kinetic - Light – Magnetic)

3-الطاقة... تؤثر على المستقبلات الحسية في العين فتسبب الاحساس بالرؤية (الصوتية - الحركية- الضوئية- المغناطيسية)

3-Each of the following is considered a source of light except (the fire - the sun - the lamp- the eye)

3-كل مما يلي يعتبر مصدر للضوء ماعدا... (النار - الشمس- المصباح - العين)

4- There is a tapetum lucidum in all of the following except (the horse - the cat - the human - the dog)

4 - يوجد البساط الشفاف في كل مما يأتي ماعدا (الحصان- القطة - الانسان- الكلب)

5- Which of the following is a source of light? (Eye - The moon - Fire – Mirror)

5 - أي مما يلي هو مصدر ضوء ؟ (العين - القمر - النار - المرآة)

6- Our eyes help us see what's around us. What is the organ responsible for perceiving what we see with our eyes?

(The lungs- The esophagus- The stomach- The brain)

6- أعيننا تساعدنا على رؤية ما حولنا. ما هو العضو المسؤول عن إدراك ما نراه بأعيننا؟ (الرئتان- المريء- المعدة- الدماغ)

2-Put (V) or (x) or the following statements:

5- The moon is a source of light. ()

- 5- القمر مصدر نور. ()
- 6- Both humans and animals need a source of light to see ()
 - 6- يحتاج كل من البشر والحيوانات إلى مصدر ضوء لرؤية ()
- 7- Nocturnal animals have eyes that are larger than the human eye. ()
 - 7- الحيوانات الليلية لها عيون أكبر من عين الإنسان. ()
- 8- Some animals can see at night, such as a wild ${\hbox{\it cat}}$ ()
 - 8- بعض الحيوانات تستطيع الرؤية بالليل مثل قطة برية ()
- 9- Human has a tapetum lucidum in his eye to help him see at night ()
 - 9- يمتلك الإنسان البساط الشفاف في عينه لتساعده على الرؤية في الليل

3-Complete:

- 1- Cats' eyes are adapted to night vision due to the presence of .. (behind their eyes (Tapetum lucidum-wide eyes)
- 1- عيون القطط تتكيف مع الرؤية الليلية لوجود خلف أعينهم 2- When light falls on an object and the light....., we can see this object. (refracts - reflects)



4-Answer the following:

- 1- Some animals have the ability to see in the dark because of Tapetum lucidum
- 2- Complete after noticing the following figure What happens until you see this apple?
- 3-The light falls on the apple then it is reflected on the eyes - so the eyes transmit the message to the brain then he interprets it and translates it, so we see the apple.

2- أكمل بعد ملاحظة الشكل التالي - ماذا سيحدث حتى ترى هذه التفاحة؟

3- يسقط الضوء على التفاحة ثم ينعكس على العينين فتنقل العين الرسالة إلى المخ ثم يفسرها ويترجمها فنرى التفاحة.

4- I saw an eye shining in the dark, this animal could be (cat (nocturnal animal))

4- رأيت عين تلمع في الظلام هذا الحيوان يمكن أن يكون (قطة (حيوان ليلي))



الأوراق مقدمه مجانا من

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